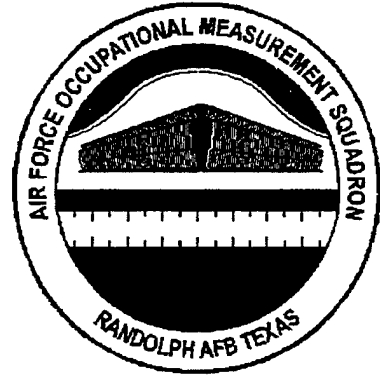




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UNITED STATES AIR FORCE

# OCCUPATIONAL SURVEY REPORT

19981006 068

AEROSPACE MAINTENANCE

AFSC 2A5X1

AFPT 90-2A5-083

AUGUST 1998

OCCUPATIONAL ANALYSIS PROGRAM  
AIR FORCE OCCUPATIONAL MEASUREMENT SQUADRON  
AIR EDUCATION AND TRAINING COMMAND  
1550 5TH STREET EAST  
RANDOLPH AFB, TEXAS 78150-4449

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# One each of the following extracts: 2A5X1D and 2A5X1J

# TABLE OF CONTENTS

	<b><u>PAGE NUMBER</u></b>
<b>PREFACE</b> .....	x
<b>SUMMARY OF RESULTS</b> .....	xii
<b>INTRODUCTION</b> .....	1
Background.....	1
<b>SURVEY METHODOLOGY</b> .....	3
Inventory Development .....	3
Survey Administration .....	4
Survey Sample .....	4
Task Factor Administration .....	8
<b>SPECIALTY JOBS (Career Ladder Structure)</b> .....	9
Overview of Specialty Jobs .....	9
Group Descriptions.....	11
Comparison of Current Group Descriptions to Previous Study.....	40
Current Study.....	40
Summary.....	44
<b>ANALYSIS OF AEROSPACE MAINTENANCE DAFSC GROUPS</b> .....	44
Skill-Level Descriptions (Active Duty – AFSC 2A531A/B/C/D/E/F/G/H) .....	45
Active Duty.....	45
Skill-Level Descriptions (Active Duty – DAFSC 2A551J/K/L).....	66
Skill-Level Descriptions (Active Duty – DAFSC 2A571) .....	70
Skill-Level Descriptions (Active Duty – DAFSC 2A590) .....	83
Summary.....	83
Skill-Level Descriptions (AFRC – DAFSC 2A531A/B/C).....	91
Skill-Level Descriptions (AFRC – DAFSC 2A551J/K/L).....	95
Skill-Level Descriptions (AFRC – DAFSCs 2A571 and 2A590) .....	100
Skill-Level Descriptions (ANG – DAFSC 2A551J/K/L).....	100
Skill-Level Descriptions (ANG – DAFSCs 2A571 and 2A590) .....	108
Summary.....	108
<b>ANALYSIS OF MAJOR COMMANDS</b> .....	116
<b>TRAINING ANALYSIS</b> .....	116
First-Enlistment Personnel (Active Duty) .....	120
Training Emphasis (TE) and Task Difficulty (TD) Data.....	136
Specialty Training Standard (STS) Analysis .....	138
Overview.....	138
Computer Listing of STSs .....	142

## TABLE OF CONTENTS (CONTINUED)

	<b><u>PAGE NUMBER</u></b>
<b>JOB SATISFACTION ANALYSIS .....</b>	<b>143</b>
<b>ACTIVE DUTY JOB SATISFACTION .....</b>	<b>143</b>
<b>AFRC JOB SATISFACTION .....</b>	<b>156</b>
<b>ANG JOB SATISFACTION .....</b>	<b>156</b>
<b>IMPLICATIONS.....</b>	<b>162</b>

**TABLE OF CONTENTS**  
(Tables, Figures, Appendices)

	<b><u>PAGE NUMBER</u></b>
<b>TABLE 1</b> MAJCOM REPRESENTATION OF <b>TOTAL</b> AFSC 2A5X1 PERSONNEL .....	5
<b>TABLE 2</b> MAJCOM REPRESENTATION OF <b>ACTIVE DUTY</b> SAMPLE .....	6
<b>TABLE 3</b> PAYGRADE DISTRIBUTION OF TOTAL SAMPLE.....	7
<b>TABLE 4</b> RELATIVE PERCENT TIME SPENT ON DUTIES BY SPECIALTY JOBS <b>TOTAL SAMPLE</b> (N=6,935).....	12-15
<b>TABLE 5</b> SELECTED BACKGROUND DATA FOR SPECIALTY JOBS (N=6,935) .....	16-19
<b>TABLE 6</b> JOB SPECIALTY COMPARISONS BETWEEN CURRENT AND PREVIOUS SURVEYS.....	41-43
<b>TABLE 7</b> DISTRIBUTION OF DAFSC GROUP MEMBERS ACROSS SPECIALTY JOBS (PERCENT RESPONDING) <b>ACTIVE</b> .....	46-48
<b>TABLE 8</b> DISTRIBUTION OF DAFSC GROUP MEMBERS ACROSS SPECIALTY JOBS (PERCENT RESPONDING) <b>AIR FORCE RESERVES</b> .....	49
<b>TABLE 9</b> DISTRIBUTION OF DAFSC GROUP MEMBERS ACROSS SPECIALTY JOBS (PERCENT RESPONDING) <b>AIR NATIONAL GUARD</b> .....	50
<b>TABLE 10</b> RELATIVE PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS <b>ACTIVE DUTY</b> .....	51-52
<b>TABLE 11</b> RELATIVE PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS <b>ACTIVE DUTY</b> .....	53
<b>TABLE 12</b> RELATIVE PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS <b>AIR FORCE RESERVES</b> .....	54-55
<b>TABLE 13</b> RELATIVE PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS <b>AIR NATIONAL GUARD</b> .....	56
<b>TABLE 14</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY</b> 2A531X PERSONNEL .....	57
<b>TABLE 15</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY</b> 2A531A PERSONNEL .....	59
<b>TABLE 16</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY</b> 2A531B PERSONNEL .....	60
<b>TABLE 17</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY</b> 2A531C PERSONNEL .....	61
<b>TABLE 18</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY</b> 2A531D PERSONNEL .....	63

**TABLE OF CONTENTS (CONTINUED)**  
(Tables, Figures, Appendices)

	<b><u>PAGE NUMBER</u></b>
<b>TABLE 19</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY 2A531E</b> PERSONNEL .....	64
<b>TABLE 20</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY 2A531F</b> PERSONNEL .....	65
<b>TABLE 21</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY 2A531G</b> PERSONNEL .....	67
<b>TABLE 22</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY 2A531H</b> PERSONNEL .....	68
<b>TABLE 23</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY 2A551X</b> PERSONNEL .....	69
<b>TABLE 24</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY 2A551J</b> PERSONNEL .....	71
<b>TABLE 25</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY 2A551K</b> PERSONNEL .....	72
<b>TABLE 26</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY 2A551L</b> PERSONNEL .....	73
<b>TABLE 27</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN <b>ACTIVE DUTY DAFSC</b> <b>2A531X AND 2A551X PERSONNEL (PERCENT MEMBERS PERFORMING)</b> .....	74
<b>TABLE 28</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN <b>ACTIVE DUTY DAFSC</b> <b>2A531A AND 2A551J PERSONNEL (PERCENT MEMBERS PERFORMING)</b> .....	75
<b>TABLE 29</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN <b>ACTIVE DUTY DAFSC</b> <b>2A531B AND 2A551J PERSONNEL (PERCENT MEMBERS PERFORMING)</b> .....	76
<b>TABLE 30</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN <b>ACTIVE DUTY DAFSC</b> <b>2A531C AND 2A551J PERSONNEL (PERCENT MEMBERS PERFORMING)</b> .....	77
<b>TABLE 31</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN <b>ACTIVE DUTY DAFSC</b> <b>2A531D AND 2A551J PERSONNEL (PERCENT MEMBERS PERFORMING)</b> .....	78
<b>TABLE 32</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN <b>ACTIVE DUTY DAFSC</b> <b>2A531E AND 2A551K PERSONNEL (PERCENT MEMBERS PERFORMING)</b> .....	79
<b>TABLE 33</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN <b>DAFSC 2A531F AND</b> <b>2A551K PERSONNEL (PERCENT MEMBERS PERFORMING)</b> .....	80
<b>TABLE 34</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN <b>DAFSC 2A531G AND</b> <b>2A551L PERSONNEL (PERCENT MEMBERS PERFORMING)</b> .....	81
<b>TABLE 35</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN <b>DAFSC 2A531H AND</b> <b>2A551L PERSONNEL (PERCENT MEMBERS PERFORMING)</b> .....	82

**TABLE OF CONTENTS (CONTINUED)**  
(Tables, Figures, Appendices)

	<b><u>PAGE NUMBER</u></b>
<b>TABLE 36</b> REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A571 PERSONNEL .....	84
<b>TABLE 37</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A551X AND 2A571 PERSONNEL (PERCENT MEMBERS PERFORMING) .....	85
<b>TABLE 38</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A551J AND 2A571 PERSONNEL (PERCENT MEMBERS PERFORMING).....	86
<b>TABLE 39</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A551K AND 2A571 PERSONNEL (PERCENT MEMBERS PERFORMING).....	87
<b>TABLE 40</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A551L AND 2A571 PERSONNEL (PERCENT MEMBERS PERFORMING).....	88
<b>TABLE 41</b> REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A590 PERSONNEL .....	89
<b>TABLE 42</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A571 AND 2A590 PERSONNEL .....	90
<b>TABLE 43</b> REPRESENTATIVE TASKS PERFORMED BY AFRC 2A531X PERSONNEL .....	92
<b>TABLE 44</b> REPRESENTATIVE TASKS PERFORMED BY AFRC 2A531A PERSONNEL .....	93
<b>TABLE 45</b> REPRESENTATIVE TASKS PERFORMED BY AFRC 2A531B PERSONNEL .....	94
<b>TABLE 46</b> REPRESENTATIVE TASKS PERFORMED BY AFRC 2A531C PERSONNEL .....	96
<b>TABLE 47</b> REPRESENTATIVE TASKS PERFORMED BY AFRC 2A551X PERSONNEL .....	97
<b>TABLE 48</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN AFRC DAFSC 2A531X AND 2A551X PERSONNEL .....	98
<b>TABLE 49</b> REPRESENTATIVE TASKS PERFORMED BY AFRC 2A551J PERSONNEL .....	99
<b>TABLE 50</b> REPRESENTATIVE TASKS PERFORMED BY AFRC 2A551L PERSONNEL .....	101
<b>TABLE 51</b> REPRESENTATIVE TASKS PERFORMED BY AFRC 2A571 PERSONNEL.....	102
<b>TABLE 52</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN AFRC DUTY DAFSC 2A551X AND 2A571 PERSONNEL .....	103
<b>TABLE 53</b> REPRESENTATIVE TASKS PERFORMED BY ANG 2A551X PERSONNEL .....	105
<b>TABLE 54</b> REPRESENTATIVE TASKS PERFORMED BY ANG 2A551J PERSONNEL .....	106
<b>TABLE 55</b> REPRESENTATIVE TASKS PERFORMED BY ANG 2A551K PERSONNEL .....	107

**TABLE OF CONTENTS (CONTINUED)**  
(Tables, Figures, Appendices)

	<b><u>PAGE NUMBER</u></b>
<b>TABLE 56</b> REPRESENTATIVE TASKS PERFORMED BY ANG 2A551L PERSONNEL .....	109
<b>TABLE 57</b> REPRESENTATIVE TASKS PERFORMED BY ANG 2A571 PERSONNEL.....	110
<b>TABLE 58</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN ANG DAFSC 2A551X AND 2A571 PERSONNEL.....	111
<b>TABLE 59</b> REPRESENTATIVE TASKS PERFORMED BY ANG 2A590 PERSONNEL.....	112
<b>TABLE 60</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN ANG DAFSC 2A571 AND 2A590 PERSONNEL.....	113
<b>TABLE 61</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A5X1X AND AFR 2A5X1X PERSONNEL (PERCENT MEMBERS PERFORMING) .....	114
<b>TABLE 62</b> TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A5X1X AND ANG DAFSC 2A5X1X (PERCENT MEMBERS PERFORMING).....	115
<b>TABLE 63</b> PERCENTAGE OF TIME SPENT ON DUTIES BY MAJCOM GROUPS .....	117-118
<b>TABLE 64</b> RELATIVE PERCENTAGE TIME SPENT ON DUTIES BY COMPONENTS TOTAL SAMPLE (N=6,935).....	119
<b>TABLE 65</b> RELATIVE PERCENT TIME SPENT ON DUTIES BY ACTIVE DUTY FIRST- ENLISTMENT PERSONNEL .....	122
<b>TABLE 66</b> REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A5X1 FIRST- ENLISTMENT PERSONNEL .....	123
<b>TABLE 67</b> REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY A-SHRED FIRST-ENLISTMENT PERSONNEL.....	124
<b>TABLE 68</b> REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY B-SHRED FIRST-ENLISTMENT PERSONNEL.....	125
<b>TABLE 69</b> REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY C-SHRED FIRST-ENLISTMENT PERSONNEL.....	126
<b>TABLE 70</b> REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY D-SHRED FIRST-ENLISTMENT PERSONNEL.....	127
<b>TABLE 71</b> REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY E-SHRED FIRST-ENLISTMENT PERSONNEL.....	128
<b>TABLE 72</b> REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY F-SHRED FIRST-ENLISTMENT PERSONNEL.....	129
<b>TABLE 73</b> REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY G-SHRED FIRST-ENLISTMENT PERSONNEL.....	130

**TABLE OF CONTENTS (CONTINUED)**  
(Tables, Figures, Appendices)

	<b><u>PAGE NUMBER</u></b>
<b>TABLE 74</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY</b> H-SHRED FIRST-ENLISTMENT PERSONNEL.....	131
<b>TABLE 75</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY</b> J-SHRED FIRST-ENLISTMENT PERSONNEL.....	132
<b>TABLE 76</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY</b> K-SHRED FIRST-ENLISTMENT PERSONNEL.....	133
<b>TABLE 77</b> REPRESENTATIVE TASKS PERFORMED BY <b>ACTIVE DUTY</b> L-SHRED FIRST-ENLISTMENT PERSONNEL.....	134
<b>TABLE 78</b> SUPPORT EQUIPMENT USED OR OPERATED BY MORE THAN 30 PERCENT OF FIRST-ENLISTMENT PERSONNEL <b>ACTIVE DUTY</b> .....	135
<b>TABLE 79</b> AFSC 2A5X1 TASKS WITH HIGHEST TRAINING EMPHASIS RATINGS .....	137
<b>TABLE 80</b> AFSC 2A5X1 TASKS WITH HIGHEST TASK DIFFICULTY RATINGS .....	139
<b>TABLE 81</b> EXAMPLE OF TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE OF <b>ACTIVE DUTY</b> AFSC 2A531X PERSONNEL AND NOT REFERENCED TO THE STS ( <i>FUNDAMENTAL COURSE</i> ).....	140
<b>TABLE 82</b> EXAMPLES OF STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP ( <i>FUNDAMENTAL COURSE</i> ) .....	141
<b>TABLE 83</b> EXAMPLES OF STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP ( <i>FUNDAMENTAL COURSE</i> ) .....	144
<b>TABLE 84</b> STS MATCHES FOR FUNDAMENTALS AND 3-SKILL LEVEL COURSES AEROSPACE MAINTENANCE AFSC 2A5X1 .....	145
<b>TABLE 85</b> COMPARISONS OF JOB SATISFACTION INDICATORS BY COMPONENT STATUS (PERCENT MEMBERS RESPONDING).....	146
<b>TABLE 86</b> COMPARISON OF JOB SATISFACTION INDICATORS OF <b>ACTIVE DUTY</b> PERSONNEL BY TAFMS GROUPS (PERCENT MEMBERS RESPONDING).....	147
<b>TABLE 87</b> COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 2A5X1 <b>ACTIVE DUTY</b> TAFMS GROUPS IN CURRENT SURVEY TO PREVIOUS SURVEYS ( <i>1-48 MONTHS TAFMS</i> ) .....	149
<b>TABLE 88</b> COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 2A5X1 <b>ACTIVE DUTY</b> TAFMS GROUPS IN CURRENT SURVEY TO PREVIOUS SURVEYS ( <i>49-96 MONTHS TAFMS</i> ) .....	150
<b>TABLE 89</b> COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 2A5X1 <b>ACTIVE DUTY</b> TAFMS GROUPS IN CURRENT SURVEY TO PREVIOUS SURVEYS ( <i>97+ MONTHS TAFMS</i> ) .....	151

**TABLE OF CONTENTS (CONTINUED)**  
(Tables, Figures, Appendices)

	<b><u>PAGE NUMBER</u></b>
<b>TABLE 90</b> COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS <b>ACTIVE DUTY</b> (PERCENT MEMBERS RESPONDING).....	152-155
<b>TABLE 91</b> COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS (PERCENT MEMBERS RESPONDING) <b>AIR FORCE RESERVES</b> .....	157-159
<b>TABLE 92</b> COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS (PERCENT MEMBERS RESPONDING) <b>AIR NATIONAL GUARD</b> .....	160-161
 <b>FIGURE 1</b> AFSC 2A5X1 CAREER LADDER JOBS .....	 10
<b>FIGURE 2</b> FIRST-ENLISTMENT PERSONNEL JOBS (N=1,068).....	121
 <b>APPENDIX A</b> SELECTED REPRESENTATIVE TASKS PERFORMED BY MEMBERS OF AEROSPACE MAINTENANCE CAREER LADDER JOBS .....	 163
<b>APPENDIX B</b> TOTAL SURVEY SAMPLE OF REPRESENTATIVE TASKS AND TASKS THAT DIFFERENTIATE DAFSCs.....	165
<b>APPENDIX C</b> STS MATCHES COMPARED TO SURVEY DATA AEROSPACE MAINTENANCE 3-SKILL LEVEL COURSES .....	167

## PREFACE

This report presents the results of an Air Force Occupational Survey of the Aerospace Maintenance career ladder (AFSC 2A5X1A/B/C/D/E/F/G/H/J/K/L). Authority for conducting occupational surveys is contained in AFI 36-2623. Copies of this report and pertinent computer printouts are distributed to the Air Force Functional Manager, technical training school, all major using commands, and other interested operations and training officials.

First Lieutenant Christopher J. Hays, Inventory Development Specialist, developed the survey instrument. Mrs. Christine G. Garcia, Occupational Analyst, analyzed the data and wrote the final report. Mrs. Rebecca R. Hernandez provided computer programming support, and Mr. Richard G. Ramos provided administrative support. Lieutenant Colonel Roger W. Barnes, Chief, Airman Analysis Section, Occupational Analysis Flight, Air Force Occupational Measurement Squadron (AFOMS), reviewed and approved this report for release.

Additional copies of this report can be obtained by writing to AFOMS/OMYXI, 1550 5th Street East, Randolph AFB Texas 78150-4449, or by calling DSN 487-5543. For information on the Air Force occupational survey process or other on-going projects, visit our web site at <http://www.omsq.af.mil>.

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## SUMMARY OF RESULTS

1. **Survey Coverage:** The Aerospace Maintenance career ladder was surveyed to obtain current task and equipment data for use in evaluating current training programs. Due to the large number of personnel assigned to the career ladder, a stratified random sample of eligible active duty, Air Force Reserve (AFRC), and Air National Guard (ANG) members were used for survey selection. Survey results are based on 4,393 active duty, 1,599 AFRC and 943 ANG respondents.
2. **Specialty Jobs:** Structure analysis identified 9 clusters and 11 jobs within the specialty. Over half the survey sample members are directly involved with the core technical duties and tasks pertaining to general airframe and aircraft maintenance of the crew chief job. Smaller numbers of respondents were identified as working specific functions, such as Alternate Mission equipment, Support, Aero Repair, Inspections, Technical Orders, and Core Automated Maintenance Systems.
3. **Career Ladder Progression:** The Aerospace Maintenance career ladder progression is typical of most career ladders. The 3- and 5-skill level members in each shred perform many tasks in common, with some variations specific to their assigned aircraft. Although 7-skill level members still perform a substantial amount of routine day-to-day technical inspections and maintenance tasks, a shift toward supervisory functions is evident. The 9-skill level personnel are primarily the managers of the career ladder, with very little technical work noted.
4. **Training Analysis:** The 14 STSs for the specialty, dated January 1997, were reviewed using survey data. There are many common sections in the documents, as well as portions that pertain to specific aircraft and systems. Some aircraft-specific portions of each Specialty Training Standard (STS) are unsupported by survey data. A complete review of each STS has been provided to the technical school for evaluation.
5. **Job Satisfaction Analysis:** In general, job satisfaction among most AFSC 2A5X1 personnel was good. However, overall job satisfaction for the Aerospace Maintenance personnel is slightly lower than job satisfaction figures for those members with similar mission equipment management career ladders. The active duty first-enlistment group tends to reflect lower satisfaction than other TAFMS groups. Personnel working in the Depot Inspector Job, Technical Orders Job, Isochronal Inspector Job and Equipment Management Cluster showed lower job satisfaction than any of the other jobs and clusters identified. Guardsmen and reservists had higher job satisfaction ratings than their active duty counterparts.
6. **Implications:** Survey results indicate 55 percent of the sample performing crew chief/mechanic activities. Overall job progression is normal. Job satisfaction is generally good, but some problem areas were noted. Extensive documentation of the 14 STSs reviewed has been forwarded to the operational training school for review and evaluation.

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**OCCUPATIONAL SURVEY REPORT (OSR)  
AEROSPACE MAINTENANCE CAREER LADDER  
AFSC 2A5X1**

**INTRODUCTION**

This is a report of an occupational survey of the Aerospace Maintenance career ladder, AFSC 2A5X1, conducted by the Occupational Analysis Flight, Air Force Occupational Measurement Squadron (AFOMS). Data collected will be used to validate career ladder documents and to update training programs. This is the first survey of this career ladder since it was created 1 November 1993 with the merger of AFSC 454X4A, Aircraft Pneudraulic Systems Technician, MAC or SAC Aerospace Repair; AFSC 457X0, Strategic Aircraft Maintenance; and AFSC 457X2, Airlift Aircraft Maintenance.

Background

As described in the AFMAN 36-2108 *Specialty Description*, dated 30 April 1998, Aerospace Maintenance personnel maintain aircraft, support equipment, and forms and records. They also perform production supervisor, flight chief, expeditor, crew chief, support, aero repair, and maintenance functions. Personnel troubleshoot and maintain aircraft structures, systems, components and support equipment. They test repaired components using mockups and test equipment. They also adjust, align, rig, and calibrate aircraft systems, perform engine run-ups, accomplish weight and balance functions, and jack, tow, and service aircraft. In addition, they perform aircraft and component inspections. They inspect and check components for clearances, tolerances, proper installation, and operation. They inspect and operate powered and nonpowered aerospace ground equipment, and inspect and identify aircraft corrosion for prevention and correction. They review maintenance forms, aircraft records, and reports to ensure complete documentation, and inventory and maintain alternate mission equipment.

The AFSC 2A5X1 career ladder is shredded at the 1-, 3-, and 5-skill levels. The shreds are used to denote the type(s) of aircraft maintained. Shredouts A, B, C, D, E, F, G, and H are applicable to the 1- and 3-skill levels only. Shredouts J, K, and L are applicable to the 5-skill level. Shredouts A, B, C, and D merge to form shredout J at the 5-skill level. Shredouts E and F merge at the 5-skill level to form shredout K. Shredouts G and H merge at the 5-skill level to form shredout L. Listed below are the AFSC shreds and their associated aircraft:

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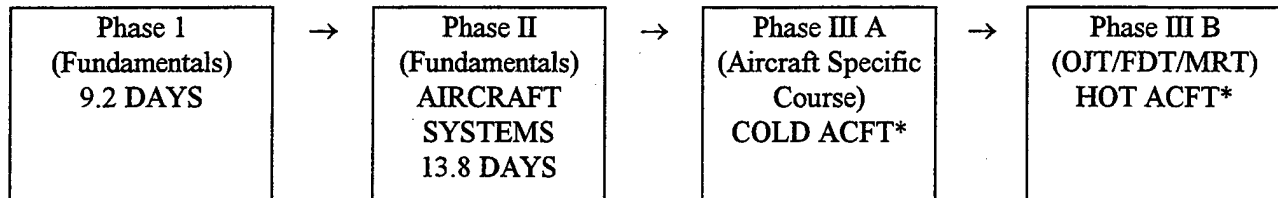
SHREDASSOCIATED AIRCRAFT

2A531A	C-9, C-20, C-21, C-22, C-41, T-39, T-43
2A531B	C-12, C-26, C-27, C-130
2A531C	C-5
2A531D	C-17
2A531E	B-1, B-2
2A531F	B-52
2A531G	C-18, C-135, E-3, VC-25, VC-137
2A531H	E-4, KC-10
2A551J	C-9, C-20, C-17, C-21, C-22, C-141, T-39, T-43, C-12, C-26, C-27, C-130, C-5
2A551K	B-1, B-2, B-52
2A551L	C-18, C-135, E-3, VC-25, VC-137, E-4, KC-10

Entry into the AFSC 2A5X1 career ladder currently requires an Armed Services Vocational Aptitude Battery mechanical score of 51, and a strength factor of "L" (weight lift of 80 pounds). Upon entry into the career ladder, personnel complete a phased approach to meeting the training requirements for the weapons system they will maintain at their first duty assignment. All students must first attend the 23-day Aerospace Maintenance Fundamentals Course (J3ATR2A020 001) at Sheppard AFB TX. Phase I of this course covers quality awareness, security, inspection concepts, hazardous communication, safety, technical order systems, hardware, maintenance management, aircraft records and the Core Automated Maintenance System (CAMS), and Quality AF. Phase II of the course covers general aircraft utilities, airframes, engine fuels, pneudraulics, landing gears, flight controls, electrical systems, and inspection procedures.

Upon completion of the Fundamentals course, students attend an aircraft-specific course, referred to as Phase IIIA. Training is provided in a formal classroom setting, with some hands-on training. This is referred to as "Cold aircraft instruction." A majority of this training is provided at Sheppard AFB, but some of it may be provided at other bases, depending on availability of aircraft for training and the weapons systems training requirements. Upon completion of this course, most airmen will enter a Phase IIIB Mission Ready Technician (MRT) course, or "Hot aircraft instruction," where they receive extensive hands-on instruction at a Training Detachment. Most of this training is conducted at bases other than Sheppard AFB. For instance, the C-130 MRT course is taught at Little Rock AFB AR and the C-141 course is taught at McChord AFB WA.

## AIRCRAFT MAINTENANCE FUNDAMENTALS COURSE MODEL



\* Location and length is dependent upon student's weapons system

## SURVEY METHODOLOGY

### Inventory Development

The data collection instrument for this occupational survey was USAF Job Inventory (JI), AFPT 90-2A5-083, dated November 1995. A tentative task list was prepared after reviewing pertinent career ladder publications and directives and tasks from previous applicable OSRs. The preliminary task list was refined and validated through personal interviews with 39 subject-matter experts (SMEs) at the following locations:

### BASE

Sheppard AFB TX  
 Offutt AFB NE  
 Whiteman AFB MO  
 Dyess AFB TX  
 Travis AFB CA  
 Barksdale AFB LA  
 Little Rock AFB AR  
 Charleston AFB SC  
 Hurlburt Field FL

### REASON FOR VISIT

Operational Training School  
 Home of KC-135, RC-135, EC-135,  
 WC-135, E-4  
 Home of 393BS and only operational  
 B-2 squadron  
 Interview C-130 and C-1 crew chiefs  
 Interview Flight Line C-5s, C-141s, and  
 KC10s crew chiefs  
 Home of B-52  
 Home of the C-130  
 Home of the C-141 and C-17  
 Home of special operation C-130's

Others contacts included the Air Force functional and resource managers, major command (MAJCOM) representatives, and the career field training manager. The resulting JI contained a comprehensive listing of 987 tasks grouped under 16 duty headings, with a background section requesting such information as present job, functional area, component status, work schedule, previous AFSC title, type of aircraft maintained, inspections performed, support equipment operated, and forms used. Also requested was information on paygrade, time in present job, time in service, time in career field, and job satisfaction indicators.

### Survey Administration

From March 1996 through November 1996, survey control monitors at base training offices worldwide administered the inventory to selected active duty, Air Force Reserve (AFRC), and Air National Guard (ANG) personnel. A stratified random sample consisting of approximately 50 percent of all assigned 3-, 5-, 7- and 9-skill level members were selected from each of the three component groups. Inventory booklets were administered to 5,840 active duty, 2,466 AFRC, and to 2,015 ANG personnel. Personnel excluded from taking the survey included the following: (1) hospitalized personnel; (2) personnel in transition for a permanent change of station; (3) personnel retiring within the time the inventories were administered to the field; and (4) personnel in their jobs less than 6 weeks. Participants were selected from a computer-generated mailing list obtained from personnel data tapes maintained by Air Force Personnel Center, Randolph AFB TX.

Each individual who completed the inventory first filled in an identification and biographical information section and then checked each task performed in his or her current job. After checking tasks performed, each individual rated each of these tasks on a 9-point scale, showing relative time spent on that task, compared to other tasks performed. The ratings ranged from 1 (very small amount time spent) to 9 (very large amount time spent).

To determine relative time spent for each task, all of the incumbent's ratings are assumed to account for 100 percent of time spent on the job and are summed. Each task rating is then divided by the total task ratings and multiplied by 100 to provide a relative percentage of time spent on each task. This procedure provides a bases for comparing tasks in terms of both percent members performing and average percent time spent.

### Survey Sample

Selection criteria was utilized to ensure the survey sample represented an accurate representation across skill levels and paygrades. Table 1 reflects the distribution, by MAJCOM, of assigned AFSC 2A5X1 personnel as of March 1996, and the survey statistics of the three components: active duty, AFRC, and ANG personnel. The 6,935 respondents in the final sample represent 32 percent of all assigned AFSC 2A5X1 personnel and 67 percent of surveyed personnel. Table 2 displays MAJCOM representation of the active duty sample. Table 3 reflects

TABLE 1

## MAJCOM REPRESENTATION OF TOTAL AFSC 2A5X1 PERSONNEL

<u>COMMAND</u>	<u>PERCENT OF ASSIGNED**</u>	<u>PERCENT OF SAMPLE</u>
AMC	24	30
AFRC	24	23
ANG	19	14
ACC	18	17
AETC	5	6
AFSOC	3	3
PACAF	3	3
AFMC	2	2
USAFE	2	2
OTHER	*	*
TOTAL	21,530	6,935

TOTAL ASSIGNED	21,530
TOTAL SURVEYED	10,298
TOTAL IN SAMPLE	6,935
PERCENT OF ASSIGNED IN SAMPLE	32%
PERCENT OF SURVEYED IN SAMPLE	67%

\* LESS THAN 1 PERCENT

\*\* MANNING AS OF MARCH 1996

## BREAKOUT OF SAMPLE BY COMPONENT

	<u>ACTIVE DUTY</u>	<u>AIR FORCE RESERVE</u>	<u>ANG</u>	<u>TOTAL</u>
TOTAL ASSIGNED**:	12,251	5,086	4,193	21,530
TOTAL SURVEY MAILED:	5,841	2,442	2,015	10,298
TOTAL IN SURVEY SAMPLE:	4,393	1,599	943	6,935
PERCENT OF ASSIGNED IN SAMPLE:	36%	31%	22%	32%
PERCENT OF SURVEYED IN SAMPLE:	75%	65%	47%	67%

TABLE 2

## MAJCOM REPRESENTATION OF ACTIVE DUTY SAMPLE

<u>COMMAND</u>	<u>PERCENT OF ACTIVE DUTY ASSIGNED*</u>	<u>PERCENT OF ACTIVE DUTY SAMPLE</u>
AMC	44	47
ACC	31	30
AETC	8	9
AFSOC	6	5
PACAF	5	5
AFMC	3	2
USAFE	3	2
EUR	**	**
OTHER***	**	**
TOTAL	100%	100%

TOTAL ASSIGNED 12,251  
 TOTAL SURVEYED 5,841  
 TOTAL IN SAMPLE 4,393  
 PERCENT OF ASSIGNED IN SAMPLE 36%  
 PERCENT OF SURVEYED IN SAMPLE 75%

\* ASSIGNED STRENGTH AS OF MARCH 1996

\*\* LESS THAN 1 PERCENT

\*\*\* OTHER INCLUDES: USAFA, AFMPC, AFSPC, USEUC, ZBF, ZBG

TABLE 3

## PAYGRADE DISTRIBUTION OF TOTAL SAMPLE

ACTIVE DUTY

<u>PAYGRADE</u>	<u>PERCENT OF ASSIGNED</u>	<u>PERCENT OF SAMPLE</u>
E-1 TO E-3	17	16
E-4	27	26
E-5	29	30
E-6	15	15
E-7	12	11
E-8	*	*
E-9	*	*

AFRC

<u>PAYGRADE</u>	<u>PERCENT OF ASSIGNED</u>	<u>PERCENT OF SAMPLE</u>
E-1 TO E-3	1	1
E-4	11	7
E-5	44	41
E-6	28	35
E-7	13	15
E-8	1	1
E-9	*	0

ANG

<u>PAYGRADE</u>	<u>PERCENT OF ASSIGNED</u>	<u>PERCENT OF SAMPLE</u>
E-1 TO E-3	3	2
E-4	17	14
E-5	36	35
E-6	30	33
E-7	13	15
E-8	*	1
E-9	*	*

\* INDICATES LESS THAN 1%

NOTE: COLUMNS MAY NOT ADD TO 100 PERCENT DUE TO ROUNDING

the paygrade distribution for the three components. The 4,393 active duty respondents in the final sample represent 75 percent of the surveyed active duty personnel. Overall, the final survey sample is considered to be a satisfactory representation of the career ladder population.

### Task Factor Administration

Job descriptions alone do not provide sufficient data for making decisions about career ladder documents or training programs. Task factor information is needed for a complete analysis of the career ladder. To obtain the needed task factor data, selected senior AFSC 2A5X1 personnel (generally E-6 or E-7 craftsmen) also completed a second booklet for either training emphasis (TE) or task difficulty (TD). The TE and TD booklets were processed separately from the JIs. This information gained from task factor data is used in various analyses and is a valuable part of the training decision process.

**Training Emphasis (TE)**. TE is a rating of the amount of emphasis that should be placed on tasks in entry-level training. The 172 NCOs from the career ladder who completed a TE booklet were asked to select tasks they felt required some sort of structured training for entry-level personnel and then indicate how much training emphasis these tasks should receive, from 1 (extremely low emphasis) to 9 (extremely high emphasis). Structured training is defined as training provided at resident operational training schools, field training detachments (FTDs), mobile training teams, formal on-the-job training (OJT), or any other organized training method. There was agreement among the 172 as to which tasks require some form of structured training and which do not. The average TE rating was 2.52, with a standard deviation of 1.42. Any task with a TE rating of 3.94 or above is considered to have high TE. In order for TE data to be reliable and reportable, sufficient rater agreement must exist. In this study, raters agree sufficiently on a training policy. To ensure this, additional computer runs were produced to examine if there were different rating policies expressed by personnel who had previously held a shred associated with one specific airframe. No substantial difference was found in the rating, therefore, the TE rating of all raters were used in this report.

**Task Difficulty (TD)**. Task difficulty is defined as the amount of time required for the average incumbent to learn to perform each task satisfactorily. A total of 134 experienced AFSC 2A571 (active duty) supervisors rated the difficulty of the tasks in the inventory using a 9-point scale ranging from 1 (extremely low difficulty) to 9 (extremely high difficulty). Interrater agreement among these respondents was high. TD ratings are normally adjusted so tasks of average difficulty have a value of 5.00 and a standard deviation of 1.00. Any task with a difficulty of 6.00 or greater is considered to be difficult to learn.

When used in conjunction with the primary criterion of percent members performing, TD and TE ratings can provide insight into first-enlistment personnel training requirements. Such insights may suggest a need for lengthening or shortening portions of instruction supporting Air Force Specialty entry-level jobs.

## **SPECIALTY JOBS**

### **(Career Ladder Structure)**

The occupational analysis process begins with an examination of the career ladder structure. The structure of jobs within the Aerospace Maintenance career ladder was examined on the basis of similarity of tasks performed and the relative percent of time spent ratings provided by job incumbents, independent of other specialty background factors.

The first step in the analysis process is to identify the structure of career ladders in terms of the jobs performed by the respondents. The Comprehensive Occupational Data Analysis Program (CODAP) assists by creating an individual job description for each respondent based on the tasks performed and relative amount of time spent on these tasks. The CODAP automated job clustering program then compares all the individual job descriptions, locates the two descriptions with the most similar tasks and time spent ratings, and combines them to form a composite job description. In successive stages, new members are added to this initial group, or new groups are formed based on the similarity of tasks and time spent ratings. The basic group used in this hierarchical clustering process is the Job. When two or more jobs have a substantial degree of similarity in tasks performed and time spent of tasks, they are grouped together and identified as a Cluster. The structure of the career ladder is then defined in terms of jobs and clusters of jobs. The resulting job structure information can be used to evaluate the accuracy of career ladder documents (i.e., AFMAN 36-2108 *Specialty Descriptions*, the Career Field Education and Training Plan, and Specialty Training Standards (STS) and to gain a better understanding of current utilization patterns. The above terminology will be used in the discussion of the AFSC 2A5X1 career ladder structure.

### Overview of Specialty Jobs

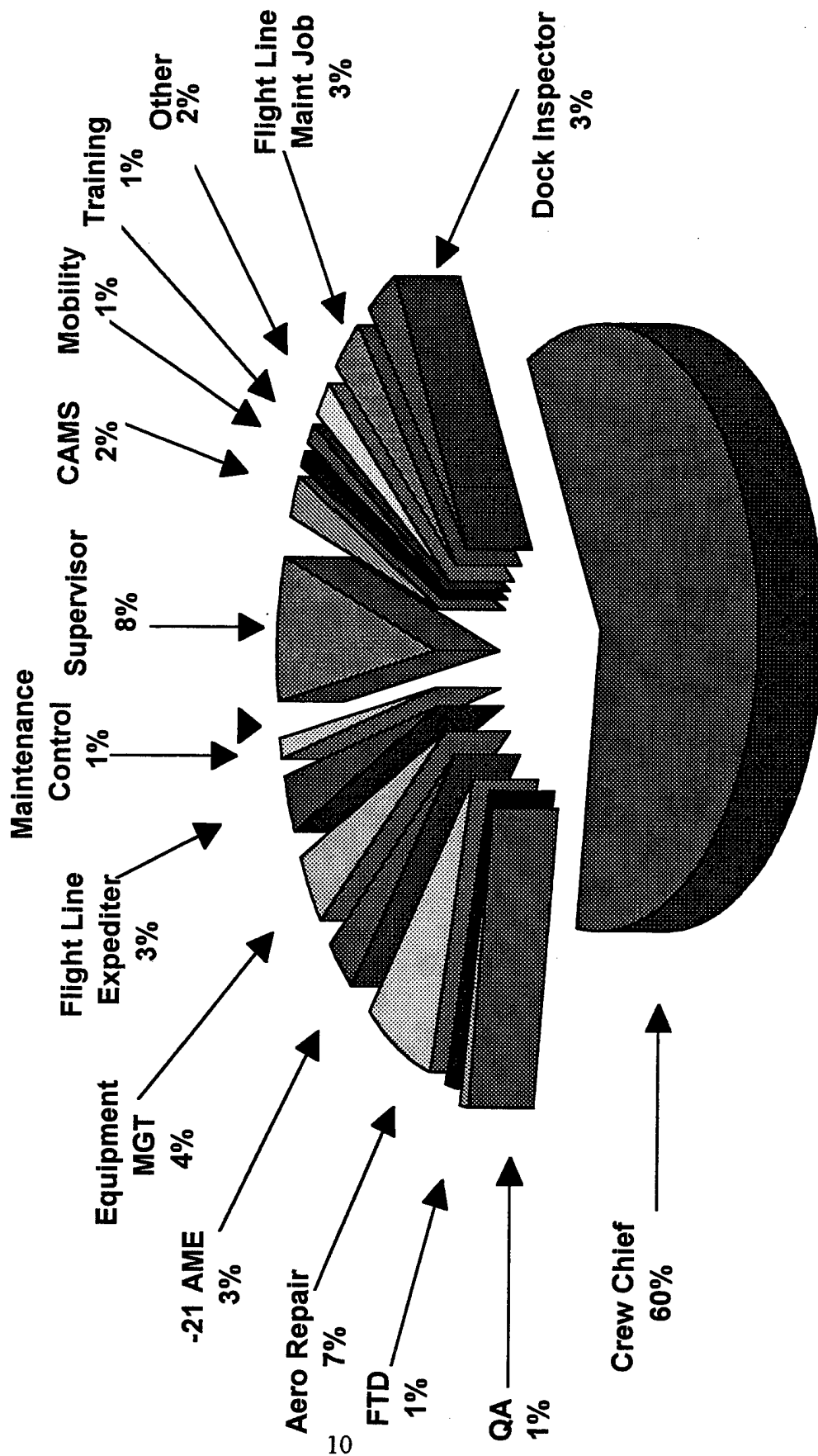
Based on the analysis of tasks performed and the amount of time spent performing each task, 9 clusters, and 11 jobs were identified within the surveyed career ladder. Figure 1 illustrates the jobs performed by AFSC 2A5X1X personnel. Active Duty, AFRC, and ANG members can be found in the majority of jobs and clusters. All basic duties revolve around the maintenance and repair of aircraft airframes and systems. Consequently, most clusters and jobs are identified by either functional area, type of inspection performed, type of maintenance, and/or system worked on, rather than the shred held.

A listing of these clusters and jobs is provided below. The stage (STG) number shown beside each title references computer-printed information; the letter "N" represents the number of personnel in each group.

- |                                     |                 |
|-------------------------------------|-----------------|
| I. TRANSIENT ALERT JOB              | (STG485, N=17)  |
| II. FLIGHT LINE MAINTENANCE CLUSTER | (STG344, N=193) |

# AFSC 2A5X1 CAREER LADDER JOBS

## FIGURE 1



\*Other includes: Transient Alert Job, Isochronal Inspector Job, Phase Inspector Job, DEPOT Inspector, FTD Instructor Job, OJT Instructor Job, Mobility Job, Technical Orders

III.	ISOCHRONAL INSPECTOR JOB	(STG493, N=17)
IV.	PHASE INSPECTOR JOB	(STG714, N=24)
V.	DOCK INSPECTOR CLUSTER	(STG330, N=193)
VI.	CREW CHIEF CLUSTER	(STG525, N=3,615)
VII.	DEPOT INSPECTOR JOB	(STG472, N=16)
VIII.	QUALITY ASSURANCE EVALUATOR JOB	(STG511, N=88)
IX.	FTD INSTRUCTOR JOB	(STG576, N=34)
X.	OJT INSTRUCTOR JOB	(STG482, N=16)
XI.	AERO REPAIR CLUSTER	(STG362, N=437)
XII.	-21 ALTERNATE MISSION EQUIPMENT (AME) SUPPORT CLUSTER	(STG206, N=169)
XIII.	EQUIPMENT MANAGEMENT CLUSTER	(STG120, N=211)
XIV.	FLIGHT LINE EXPEDITER JOB	(STG486, N=154)
XV.	MAINTENANCE CONTROL JOB	(STG504, N=50)
XVI.	SUPERVISOR CLUSTER	(STG248, N=498)
XVII.	CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) JOB	(STG520, N=133)
XVIII.	TRAINING CLUSTER	(STG379, N=78)
XIX.	MOBILITY JOB	(STG512, N=40)
XX.	TECHNICAL ORDER (TO) JOB	(STG546, N=28)

The respondents forming these groups account for 89 percent of the survey sample. The remaining 11 percent were performing tasks or series of tasks which did not group with any defined jobs. Job titles given by respondents which were representative of these personnel include Facility and Manning Manager, Crash Vehicle Control NCO, Supervisor Repair and Reclamation Manager, Wheel and Tire Shop Technician, and Supply Liaison.

#### Group Descriptions

The following paragraphs contain brief descriptions of the 9 clusters and 11 jobs identified through the career ladder structure analysis. Appendix A lists representative tasks performed by members of clusters and jobs. Table 4 displays time spent on duties by career ladder jobs for the total survey sample. Table 5 provides the demographic information for the total sample for each cluster and job discussed within this report.

TABLE 4

RELATIVE PERCENT TIME SPENT ON DUTIES BY SPECIALTY JOBS  
TOTAL SAMPLE  
(N=6,935)

	DUTIES	TRANSIENT ALERT JOB (STG485) (N=17)	FLIGHT LINE MAINT CLUSTER (STG344) (N=193)	ISOCHRONAL INSPECTOR JOB (STG493) (N=17)	PHASE INSPECTOR JOB (STG714) (N=24)	DOCK INSPECTOR CLUSTER (STG330) (N=193)
A	Performing Management And Supervisory Activities	26	2	1	2	3
B	Performing Training Activities	5	*	*	1	1
C	Performing General Administrative And Technical Order System Activities	2	*	*	1	*
D	Performing General Supply And Equipment Activities	7	1	1	1	1
E	Performing General Airframe And Aircraft Maintenance	42	61	56	36	62
F	Maintaining Landing Gear Systems	1	8	22	38	9
G	Maintaining Utility Systems	*	3	*	3	2
H	Maintaining Flight Control Systems	*	2	6	5	5
I	Maintaining Pneudraulic Systems	1	3	1	2	2
J	Maintaining Fuel Systems	3	3	2	2	2
K	Maintaining Electrical Systems	1	5	3	3	4
L	Maintaining Engine Systems	1	4	1	1	3
M	Maintaining Aerospace Ground Equipment (Age)	4	2	1	1	1
N	Maintaining -21 Ame, Dual Rail Cargo Handling Systems, And -135 Cargo Handling Systems	1	1	1	1	1
O	Performing Maintenance Management Activities	4	3	4	3	3
P	Performing Mobility And Contingency Activities	1	1	*	1	1

\* INDICATES LESS THAN 1%

NOTE: COLUMNS MAY NOT ADD TO 100 PERCENT DUE TO ROUNDING

TABLE 4 (CONTINUED)

RELATIVE PERCENT TIME SPENT ON DUTIES BY SPECIALTY JOBS

**TOTAL SAMPLE**  
(N=6,935)

	DUTIES	CREW CHIEF CLUSTER (STG525) (N=3,615)	DEPOT INSPECTOR JOB (STG472) (N=16)	QA EVALUATOR JOB (STG511) (N=88)	FTD INSTRUCTOR JOB (STG576) (N=34)	OJT INSTRUCTOR JOB (STG482) (N=16)
A	Performing Management And Supervisory Activities	4	9	19	17	24
B	Performing Training Activities	1	2	3	19	9
C	Performing General Administrative And Technical Order System Activities	1	*	4	3	7
D	Performing General Supply And Equipment Activities	1	2	2	3	4
E	Performing General Airframe And Aircraft Maintenance	41	49	22	28	30
F	Maintaining Landing Gear System	11	4	11	6	4
G	Maintaining Utility Systems	6	4	5	3	3
H	Maintaining Flight Control Systems	6	11	6	3	3
I	Maintaining Pneudraulic Systems	6	5	5	4	2
J	Maintaining Fuel Systems	4	1	3	2	1
K	Maintaining Electrical Systems	6	5	4	3	1
L	Maintaining Engine Systems	6	1	7	3	4
M	Maintaining Aerospace Ground Equipment (Age)	1	1	1	2	1
N	Maintaining -21 Ame, Dual Rail Cargo Handling Systems, And -135 Cargo Handling Systems	2	1	1	1	2
O	Performing Maintenance Management Activities	3	4	6	3	4
P	Performing Mobility And Contingency Activities	1	*	2	*	3

\* INDICATES LESS THAN 1%

NOTE: COLUMNS MAY NOT ADD TO 100 PERCENT DUE TO ROUNDING

TABLE 4 (CONTINUED)

RELATIVE PERCENT TIME SPENT ON DUTIES BY SPECIALTY JOBS  
**TOTAL SAMPLE**  
 N=6,935

	DUTIES	AERO REPAIR CLUSTER (STG362) (N=437)	-21 AME SUPPORT CLUSTER (STG206) (N=169)	EQUIPMENT MANAGEMENT CLUSTER (STG120) (N=211)	FLIGHT LINE EXPEDITER CLUSTER (STG486) (N=154)	MAINT CONTROL JOB (STG504) (N=50)
A	Performing Management And Supervisory Activities	7	12	26	52	46
B	Performing Training Activities	2	3	4	2	11
C	Performing General Administrative And Technical Order System Activities	1	1	5	4	10
D	Performing General Supply And Equipment Activities	3	6	45	6	5
E	Performing General Airframe And Aircraft Maintenance	26	19	4	8	1
F	Maintaining Landing Gear Systems	21	*	1	1	*
G	Maintaining Utility Systems	*	3	*	*	*
H	Maintaining Flight Control Systems	30	*	*	*	*
I	Maintaining Pneudraulic Systems	1	*	*	*	*
J	Maintaining Fuel Systems	*	*	*	*	0
K	Maintaining Electrical Systems	1	*	*	*	0
L	Maintaining Engine Systems	1	*	*	1	0
M	Maintaining Aerospace Ground Equipment (Age)	1	2	2	1	0
N	Maintaining -21 Ame, Dual Rail Cargo Handling Systems, And -135 Cargo Handling Systems	1	43	3	2	3
O	Performing Maintenance Management Activities	4	5	6	19	18
P	Performing Mobility And Contingency Activities	2	4	5	4	6

\* INDICATES LESS THAN 1%

NOTE: COLUMNS MAY NOT ADD TO 100 PERCENT DUE TO ROUNDING

TABLE 4 (CONTINUED)

RELATIVE PERCENT TIME SPENT ON DUTIES BY SPECIALTY JOBS

TOTAL SAMPLE  
(N=6,935)

	DUTIES	SUPERVISOR CLUSTER (STG248) (N=498)	CAMS JOB (STG520) (N=133)	TRAINING CLUSTER (STG379) (N=78)	MOBILITY JOB (STG512) (N=40)	TECHNICAL ORDERS JOB (STG546) (N=28)
A	Performing Management And Supervisory Activities	55	23	31	31	22
B	Performing Training Activities	10	3	50	4	2
C	Performing General Administrative And Technical Order System Activities	6	7	4	11	61
D	Performing General Supply And Equipment Activities	7	7	4	6	6
E	Performing General Airframe And Aircraft Maintenance	6	1	2	*	2
F	Maintaining Landing Gear Systems	1	*	*	*	*
G	Maintaining Utility Systems	*	*	*	*	*
H	Maintaining Flight Control Systems	*	*	*	*	*
I	Maintaining Pneudraulic Systems	*	*	*	*	*
J	Maintaining Fuel Systems	*	*	*	*	*
K	Maintaining Electrical Systems	*	*	*	*	*
L	Maintaining Engine Systems	*	*	*	*	*
M	Maintaining Aerospace Ground Equipment (Age)	*	*	*	*	*
N	Maintaining -21 Ame, Dual Rail Cargo Handling Systems, And -135 Cargo Handling Systems	1	9	1	*	*
O	Performing Maintenance Management Activities	7	45	5	4	2
P	Performing Mobility And Contingency Activities	4	4	1	43	3

\* INDICATES LESS THAN 1%

NOTE: COLUMNS MAY NOT ADD TO 100 PERCENT DUE TO ROUNDING

TABLE 5

SELECTED BACKGROUND DATA FOR SPECIALTY JOBS  
(N=6,935)

	TRANSIENT ALERT JOB (GP485)	FLIGHT LINE MAINTENANCE CLUSTER (GP344)	ISOCHRONAL INSPECTOR JOB (GP493)	PHASE INSPECTOR JOB (GP714)	DOCK INSPECTOR CLUSTER (GP330)
NUMBER IN GROUP	17	193	17	24	193
PERCENT OF TOTAL SAMPLE	*	3%	*	*	3%
PERCENT IN CONUS	71%	91%	94%	92%	94%
DAFSC DISTRIBUTION					
2A531A	0	3%	12%	4%	4%
2A531B	0	4%	12%	4%	9%
2A531C	0	5%	6%	25%	3%
2A531D	0	4%	6%	8%	3%
2A531E	0	2%	0	4%	3%
2A531F	0	3%	6%	0	0
2A531G	0	8%	0	0	4%
2A531H	0	5%	0	0	1%
2A551J	35%	31%	47%	46%	37%
2A551K	0	2%	0	0	2%
2A551L	29%	20%	6%	4%	18%
2A571	35%	13%	6%	4%	17%
2A590	0	0	0	0	0
PREDOMINANT GRADE(S)	E-5	E-5	E-4	E-3	E-4/E-5
PERCENT SUPERVISING	82%	13%	12%	12%	22%
ACTIVE DUTY-AVERAGE MONTHS IN SERVICE	153	46	37	34	65
ACTIVE DUTY-PERCENT IN FIRST ASSIGNMENT	0	70%	80%	86%	56%
COMPONENT STATUS					
ACTIVE DUTY	100%	52%	59%	63%	60%
AIR NATIONAL GUARD	0	30%	41%	33%	27%
AIR FORCE RESERVES	0	18%	0	4%	13%
AVERAGE NUMBER OF TASKS PERFORMED	64	67	62	143	107

\* Less than 1 percent

NOTE: DAFSC Distribution columns may not add to 100 percent due to rounding

TABLE 5 (CONTINUED)

SELECTED BACKGROUND DATA FOR SPECIALTY JOBS  
(N=6,935)

	CREW CHIEF CLUSTER (GP406)	DEPOT INSPECTOR JOB (GP407)	QA EVALUATOR JOB (GP408)	FTD INSTRUCTOR JOB (GP409)	OJT INSTRUCTOR JOB (GP410)
NUMBER IN GROUP	3,615	16	88	34	16
PERCENT OF TOTAL SAMPLE	52%	*	1	*	*
PERCENT IN CONUS	92%	100%	82%	91%	81%
DAFSC DISTRIBUTION					
2A531A	2%	0	0	0	6%
2A531B	3%	6%	0	0	0
2A531C	2%	6%	0	0	0
2A531D	1%	0	0	0	0
2A531E	1%	0	0	0	0
2A531F	1%	0	0	0	0
2A531G	2%	0	0	0	0
2A531H	2%	0	0	0	0
2A551J	34%	38%	5%	18%	6%
2A551K	6%	0	0	9%	38%
2A551L	19%	6%	1%	9%	0
2A571	28%	44%	89%	65%	19%
2A590	0	0	6%	0	31%
PREDOMINANT GRADE(S)	E-5	E-5	E-7	E-5	E-5
PERCENT SUPERVISING	43%	62%	57%	41%	50%
ACTIVE DUTY-AVERAGE MONTHS IN SERVICE	92	116	182	152	116
ACTIVE DUTY-PERCENT IN FIRST ASSIGNMENT	32%	14%	0	0	20%
COMPONENT STATUS					
ACTIVE DUTY	56%	88%	64%	91%	63%
AIR NATIONAL GUARD	27%	6%	18%	6%	25%
AIR FORCE RESERVES	18%	6%	18%	3%	12%
AVERAGE NUMBER OF TASKS PERFORMED	268	171	174	148	356

\* Less than 1 percent

NOTE: DAFSC Distribution columns may not add to 100 percent due to rounding

TABLE 5 (CONTINUED)  
SELECTED BACKGROUND DATA FOR SPECIALTY JOBS  
(N=6,935)

	AERO REPAIR CLUSTER (GP362)	-21 AME SUPPORT CLUSTER (GP206)	EQUIPMENT MANAGEMENT CLUSTER (GP120)	FLIGHT LINE EXPEDITER CLUSTER (GP486)	MAINT CONTROL JOB (GP504)
NUMBER IN GROUP	437	169	211	154	50
PERCENT OF TOTAL SAMPLE	6	2	3	2	1
PERCENT IN CONUS	90%	96%	88%	87%	84%
DAFSC DISTRIBUTION					
2A531A	1%	4%	1%	0	0
2A531B	0	4%	2%	0	0
2A531C	2%	1%	1%	0	0
2A531D	0	1%	2%	0	0
2A531E	0	0	0	0	0
2A531F	0	0	0	0	0
2A531G	1%	0	1%	0	0
2A531H	0	0	2%	0	0
2A551J	41%	56%	43%	5%	14%
2A551K	5%	0	6%	0	2%
2A551L	14%	8%	17%	0	14%
2A571	36%	26%	23%	89%	70%
2A590	0	0	0	6%	0
PREDOMINANT GRADE(S)	E-5	E-5	E-4	E-7	E-6
PERCENT SUPERVISING	47	46	35	75	82
ACTIVE DUTY-AVERAGE MONTHS IN SERVICE	115	90	104	201	167
ACTIVE DUTY-PERCENT IN FIRST ASSIGNMENT	17%	27%	18%	0	0
COMPONENT STATUS					
ACTIVE DUTY	51%	56%	97%	84%	78%
AIR NATIONAL GUARD	16%	10%	1%	5%	12%
AIR FORCE RESERVES	33%	34%	2%	11%	10%
AVERAGE NUMBER OF TASKS PERFORMED	180	63	28	49	50

\* Less than 1 percent

NOTE: DAFSC Distribution columns may not add to 100 percent due to rounding

TABLE 5 (CONTINUED)

SELECTED BACKGROUND DATA FOR SPECIALTY JOBS  
(N=6,935)

	SUPERVISOR CLUSTER (GP248)	CAMS JOB (GP520)	TRAINING CLUSTER (GP379)	MOBILITY JOB (GP512)	TO JOB (GP546)
NUMBER IN GROUP	498	133	78	40	28
PERCENT OF TOTAL SAMPLE	7	2	1	1	*
PERCENT IN CONUS	85%	88%	92%	93%	86%
DAFSC DISTRIBUTION					
2A531A	0	0	0	0	4%
2A531B	0	0	0	0	0
2A531C	0	2%	0	0	0
2A531D	0	0	0	0	0
2A531E	0	0	0	0	0
2A531F	0	0	0	0	0
2A531G	0	0	0	0	0
2A531H	0	0	0	0	4%
2A531J	0	1%	0	0	4%
2A531K	7%	37%	23%	20%	29%
2A531L	1%	4%	1%	8%	14%
2A571	5%	15%	10%	5%	11%
2A590	84%	40%	65%	68%	36%
PREDOMINANT GRADE(S)	3%	2%	0	0	0
PERCENT SUPERVISING	E-7	E-4	E-5	E-5	E-5
ACTIVE DUTY-AVERAGE MONTHS IN SERVICE	93%	35%	46%	57%	21%
ACTIVE DUTY-PERCENT IN FIRST ASSIGNMENT	191	118	159	166	114
COMPONENT STATUS	0	12%	0	6%	24%
ACTIVE DUTY					
AIR NATIONAL GUARD	84%	74%	94%	100%	93%
AIR FORCE RESERVES	4%	13%	0	0	4%
AVERAGE NUMBER OF TASKS PERFORMED	12%	14%	6%	0	4%
	91	22	38	54	16

\* Less than 1 percent

NOTE: DAFSC Distribution columns may not add to 100 percent due to rounding

#### I. TRANSIENT ALERT JOB (STG485).

The 17 airmen in this job are all active duty personnel, and represent less than 1 percent of the total survey sample. The members of this job are primarily responsible for launching and recovering aircraft on the flight line. They marshal, inspect, and perform minor maintenance on aircraft arriving or departing. They are also responsible for the supplies, forms, and documentation associated with these tasks. The members of this job spent the majority of their relative job time in Duty E, Performing General Airframe and

Aircraft Maintenance, and Duty A, Performing Management and Supervisory Activities (see Table 4). These are experienced crew chiefs performing an average of 64 tasks. Representative tasks for this job include:

- remove snow or ice from aircraft
- perform aircraft fueling or defueling
- perform aircraft fuel spill cleanup procedures
- access CAMS or GO- menu and data screens
- perform wing or tail walker procedures during aircraft towing
- launch or recover aircraft

TRANSIENT ALERT JOB			
	AD	AFRC	ANG
Number of members	17	0	0
Average number of tasks performed	64	0	0
Average time in present job	3 yrs	N/A	N/A
Average time in career field	12 yrs	N/A	N/A
Average TAFMS	13 yrs	N/A	N/A
Predominant paygrade	E-5	0	0

#### MAJCOM REPRESENTATION IN TRANSIENT ALERT JOB

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
18%	0%	0%	18%	0%	53%	0%	0%	0%	12%

Fifty-nine percent of the respondents holding this job are in the E-5 paygrade. Thirty-five percent of these members are DAFSC 2A551J, 29 percent hold the DAFSC 2A551L, and 35 percent are DAFSC 2A571 (see Table 5). Fifty-three percent of airmen assigned to this job are assigned to AMC. Individuals in this job are experienced personnel with an average 13 years in TAFMS. None are in their first enlistment. Eighty-two percent of the airmen in this job report they supervise. This small group of active duty personnel report being assigned primarily to the Transient Alert or Transient Maintenance function. This job has the largest percentage of airmen assigned overseas, 29 percent.

## II. FLIGHT LINE MAINTENANCE CLUSTER (STG344).

The 193 members of this cluster represent 3 percent of the total survey sample. This entry-level work involves general aircraft maintenance and is performed by members of all shreds. Unlike the Crew Chief Cluster, this work involves fewer general tasks. The largest part of their relative job time (61 percent) is spent in Duty E, Performing General Airframe and Aircraft Maintenance. An additional 13 percent of this relative job time is spent in Duty F, Maintaining Landing Gear Systems and Duty K, Maintaining Electrical Systems (see Table 4). They perform an average of 67 tasks. Representative tasks for this job include:

FLIGHT LINE MAINTENANCE CLUSTER			
	AD	AFRC	ANG
Number of members	100	57	36
Average number of tasks performed	64	69	74
Average time in present job	2 yrs	N/A	N/A
Average time in career field	4 yrs	N/A	N/A
Average TAFMS	4 yrs	N/A	N/A
Predominant paygrade	E-3	E-5	E-5

- connect or disconnect external electrical aircraft power
- launch or recover aircraft
- perform aircraft fueling or defueling
- service aircraft tires
- remove or install aircraft hardware, such as screws or fasteners
- operate aircraft interphones
- perform ground observer duties

### MAJCOM REPRESENTATION IN FLIGHT LINE MAINTENANCE CLUSTER

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
1%	5%	30%	2%	2%	27%	1%	19%	0%	15%

Three jobs were identified that differ by time spent on specific tasks and duties. The airmen assigned to the first job spends a larger amount of relative job time on basic flight line responsibilities, such as launching or recovering aircraft, performing foreign object damage (FOD) walks, and operating aircraft interphones, and less relative job time performing general airframe and aircraft maintenance. The airmen assigned to the second job within this cluster spend more of their relative job time on preflight and postflight inspections than the other two groups within this cluster. The airmen assigned to the third job within this cluster spend more relative job time on inspecting and maintaining the fuel and pneudraulic system than the other two job groups, with only 45 percent of their relative job time spent on general airframe and aircraft maintenance.

The airmen within this cluster are primarily assigned to AFRC and AMC. The primary skill levels for this group are the 3- and 5-skill levels (30 percent and 53 percent, respectively). The average active duty TAFMS for this cluster is 4 years, with 70 percent in their first enlistment (see Table 5).

III. ISOCHRONAL INSPECTOR JOB (STG493). The 17 members of this job account for less than 1 percent of the total survey sample. At scheduled intervals (*according to calendar time*), these members perform a thorough inspection of an aircraft surface and aerospace components and systems. They also perform specific aircraft preventive and required maintenance. Members of this job perform a more in-department inspection than those in the Phase Inspector Job. This work is primarily done within the inspection dock area.

ISOCHRONAL INSPECTOR JOB			
	AD	AFRC	ANG
Number of members	10	7	0
Average number of tasks performed	57	71	0
Average time in present job	1 yr	N/A	N/A
Average time in career field	3 yrs	N/A	N/A
Average TAFMS	3 yrs	N/A	N/A
Predominant paygrade	E-4	E-4	0

At most bases, the tasks performed by the Isochronal and Phase Inspectors are performed by the same personnel or are part of the Dock Inspector or Crew Chief clusters. However, this job and the Phase Inspector Job are identified separately by the large amount of relative time spent on isochronal or phase inspection tasks. These jobs may be influenced by the number of AFRC personnel working these jobs at certain calendar times. Forty-one percent of the members of this job are assigned to AFRC. The majority of relative job time by airmen assigned to this job is spent in Duty E, Performing General Airframe and Aircraft Maintenance (56 percent) and Duty F, Maintaining Landing Gear Systems (22 percent) (see Table 4). Airmen performing this work perform an average of 62 tasks. This is about one-third the tasks the Phase Inspector does. Representative tasks for this job include:

- remove or install aircraft hardware, such as screws or fasteners
- lubricate aircraft components
- inspect aircraft for corrosion
- inspect aircraft shock struts
- connect or disconnect external electrical aircraft power
- inspect access doors, hatches, or panels
- jack or level aircraft
- inspect landing gear structural components
- inspect aircraft wheel and tire assemblies

#### MAJCOM REPRESENTATION IN ISOCHRONAL INSPECTOR JOB

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
0%	0%	41%	6%	0%	29%	0%	0%	0%	24%

The largest percent of airmen within this job are assigned to AFRC (41 percent). The average active duty TAFMS for this job is 4 years, with 80 percent of these airmen in their first enlistment. The predominant paygrade is E-4. Forty-two percent of these members hold the 3-skill level and 53 percent hold the 5-skill level (see Table 5).

#### IV. PHASE INSPECTOR JOB (STG714).

The 24 members of this job represent less than 1 percent of the total survey sample. This job is characterized by the performance of a larger number of tasks pertaining to periodic inspections of parts and components of an aircraft. Sixty-seven percent of these incumbents report being assigned to an inspection phase dock. Seventy-four percent of their relative job time is spent in Duty F, Maintaining Landing Gear Systems and Duty E, Performing General Airframe and Aircraft Maintenance (see Table 4). They perform an average of 140 tasks. Representative tasks for this job include:

PHASE INSPECTOR JOB			
	AD	AFRC	ANG
Number of members	15	8	0
Average number of tasks performed	140	149	0
Average time in present job	2 yrs	N/A	N/A
Average time in career field	3 yrs	N/A	N/A
Average TAFMS	3 yrs	N/A	N/A
Predominant paygrade	E-3	E-5	0

- inspect brake systems components
- inspect landing gear trucks, torque struts, or bogies
- inspect landing gear up-lock mechanisms
- inspect landing gear struts
- inspect landing gear mechanical components, such as drag braces, tow spools, pins, or bushings
- inspect landing gear down-lock mechanisms
- inspect landing gear struts
- inspect landing gear mechanical components, such as drag braces, tow spools, pins, or bushings

#### MAJCOM REPRESENTATION IN PHASE INSPECTOR JOB

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
0%	17%	33%	0%	0%	42%	0%	4%	0%	4%

Airmen holding jobs within this cluster are primarily assigned to AMC (42 percent) and AFRC (33 percent). The primary skill levels for this job are DAFSC 2A551J (46 percent) and DAFSC 2A531C (25 percent) (see Table 5). Active duty airmen holding this job are some of the least experienced members in the career field, averaging 3 years in service with 86 percent in their first enlistment. Their average paygrade is E-3.

## V. DOCK INSPECTOR CLUSTER

(STG330). This cluster, consisting of 193 members, represents 3 percent of the survey sample. Members of this cluster perform many of the same tasks as the Phase Inspector, but these airmen deal with more general aircraft systems instead of landing gear. Fifty percent of members in this cluster report working in the Aircraft Inspection Dock. Sixty-two percent of their total relative time spent in Duty E, Performing General Airframe and Aircraft Maintenance (see Table 4). Airmen in this group perform an average of 107 tasks. Representative tasks performed by members of this cluster include:

DOCK INSPECTOR CLUSTER			
	AD	AFRC	ANG
Number of members	116	52	25
Average number of tasks performed	104	111	117
Average time in present job	3 yrs	N/A	N/A
Average time in career field	5 yrs	N/A	N/A
Average TAFMS	5 yrs	N/A	N/A
Predominant paygrade	E-4	E-5	E-4

- lubricate aircraft components
- connect or disconnect external electrical aircraft power
- inspect access doors, hatches, or panels
- open or close engine cowlings, panels, or doors, inspect aircraft shock struts
- operate aircraft interphones
- bleed brake systems

## MAJCOM REPRESENTATION IN DOCK INSPECTOR CLUSTER

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
3%	3%	27%	2%	4%	28%	1%	13	0%	20%

Three major jobs were identified within this cluster. The distinguishing difference between these jobs is the amount of relative job time spent on performing general airframe and aircraft maintenance, and the relative time spent on inspecting and maintaining certain parts and systems of an aircraft.

Members of the first job report spending larger relative amount of time inspecting, maintaining, and repairing access doors, hatches, and panels. They also spend more time in managerial and supervisory activities than the other two jobs within this cluster. The members of the second job spend more of their job time maintaining landing gear and flight control systems. The members of the third job are the least experienced group of airmen in this cluster, with 38 percent of these members in their first enlistment. Airmen in this cluster report performing the largest number of tasks for this cluster, 113 tasks.

Most of the personnel in this cluster are in either the E-4 or E-5 paygrade. Twenty-eight percent of the airmen working within this cluster are assigned to AMC and 27 percent to AFRC. The predominate skill levels held by these airmen are 2A551J (37 percent), 2A551L (18 percent), and 2A571 (17 percent) (see Table 5). The active duty members of this cluster average 5 years TAFMS and 56 percent are in their first enlistment.

#### VI. CREW CHIEF CLUSTER (STG525).

The 3,615 members of this cluster make up the core job in the AFSC 2A5X1 career ladder, comprising 52 percent of the survey sample. Members are responsible for flight line maintenance on a wide variety of aircraft. The largest percentage of their relative job time (41 percent) is spent on Duty E, Performing General Airframe and Aircraft Maintenance, with smaller amounts of time being spent maintaining landing gear and utility systems, and performing general engine maintenance (see Table 4). This cluster is not only the broadest, but airmen working in this cluster perform the second highest number of tasks in the survey, 268. Representative tasks performed by members of this cluster include:

CREW CHIEF CLUSTER			
	AD	AFRC	ANG
Number of members	2,012	958	645
Average number of tasks performed	249	293	291
Average time in present job	5 yrs	N/A	N/A
Average time in career field	7 yrs	N/A	N/A
Average TAFMS	8 yrs	N/A	N/A
Predominant paygrade	E-5	E-5	E-5/E-6

- connect or disconnect external electrical aircraft power
- launch or recover aircraft
- perform aircraft fueling or defueling
- operate aircraft interphones
- remove or install aircraft hardware, such as screws or fasteners
- service engines with oil
- open or close engine cowlings, panels, or doors
- inspect aircraft wheel and tire assemblies
- service aircraft tires

#### MAJCOM REPRESENTATION IN CREW CHIEF CLUSTER

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
1%	5%	27%	2%	3%	26%	2%	18%	0%	17%

The jobs within this large cluster are distinguished by the type of aircraft and systems maintained or inspected and repairs performed. Members of all jobs perform a large number of common crew chief tasks.

The primary MAJCOMs within this large cluster are AFRC (27 percent) and AMC (26 percent). This cluster contains the largest percent of airmen assigned to AFRC. The active duty crew chiefs in this cluster average 8 years TAFMS, and 32 percent are in their first enlistment. Most of the crew chiefs in this group hold either the 5- or 7-skill level with 61 percent in the paygrade of E-5 (see Table 5).

#### VII. DEPOT INSPECTOR JOB (STG472).

The 16 airmen in this job make up less than 1 percent of the survey sample and are responsible for aircraft maintenance in large depot installations. Like members of the Isochronal Inspector Job, they too are responsible for preventive inspections and repairs. Members in the Depot Inspector Job perform an average of 171 tasks in comparison to members in the Isochronal Inspector Job, who perform only 62 tasks. Depot Inspectors spend more relative job time in Duty A, Performing Management and Supervisory Activities (9 percent) in comparison to 1 percent in the Isochronal Inspector Job (see Table 4). This job is primarily manned by personnel assigned to AMC (75 percent). Representative tasks performed by members of this job include:

DEPOT INSPECTOR JOB			
	AD	AFRC	ANG
Number of members	14	1	1
Average number of tasks performed	173	0	0
Average time in present job	3 yrs	N/A	N/A
Average time in career field	9 yrs	N/A	N/A
Average TAFMS	10 yrs	N/A	N/A
Predominant paygrade	E-5	0	0

- inspect access doors, hatches, or panels
- inspect pressure seals, such as crew doors, ramps, or visor seals
- inspect cargo ramp seals
- lubricate aircraft components
- inspect aircrew worktables
- repair seats
- inspect fuse, circuit breaker, power control assemblies or current limiter panels
- clean interior of aircraft
- inspect crew door systems

#### MAJCOM REPRESENTATION IN DEPOT INSPECTOR JOB

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
0%	0%	6%	0%	0%	75%	0%	6%	0%	13%

Active duty members of this job average 10 years TAFMS, with only 14 percent report being in their first enlistment. Members of this job primarily hold the 7-skill level (44 percent); with 38 percent holding DAFSC 2A551J and 6 percent holding DAFSC 2A551L (see Table 5). Sixty-two percent of the airmen in this job report they supervise. The predominant paygrade is E-5, and all members are stationed in CONUS.

**VIII. QUALITY ASSURANCE EVALUATOR JOB (STG511).** The 88 members in this job represent 1 percent of the total survey sample. Members in this job are primarily responsible for performing inspections. Most respondents report a job title of "Quality Assurance Evaluator" or "Inspector." The largest percentage of their relative job time is spent in Duty E, Performing General Airframe and Aircraft Maintenance and Duty A, Performing Management and Supervisory Activities (see Table 4). The members of this job perform an average of 174 tasks. Representative tasks performed by members of this job include:

QUALITY ASSURANCE EVALUATOR JOB			
	AD	AFRC	ANG
Number of members	56	17	15
Average number of tasks performed	163	196	190
Average time in present job	2 yrs	N/A	N/A
Average time in career field	15 yrs	N/A	N/A
Average TAFMS	15 yrs	N/A	N/A
Predominant paygrade	E-7	E-7	E-7

- inspect radomes
- inspect aircraft for corrosion
- inspect aircraft shock struts
- inspect landing gear struts
- inspect landing gear structural components
- inspect aircraft windows or windshields
- inspect engine cowlings, panels, or doors
- inspect aircraft wheel and tire assemblies
- inspect landing gear door mechanisms
- inspect seats, seatbelts, inertial reels, or shoulder harnesses
- inspect rudders
- inspect access doors, hatches, or panels

#### MAJCOM REPRESENTATION IN QUALITY ASSURANCE EVALUATOR JOB

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
8%	13%	19%	5%	3%	16%	3%	17%	0%	16%

Active duty members in this group average 15 years TAFMS with none of these members in their first enlistment. Eighty-nine percent of members in this job hold the 7-skill level, with an additional 6 percent holding the 9-skill level (see Table 5). The predominate paygrade is E-7 (47 percent) with an additional 32 percent in the E-6 paygrade.

#### IX. FTD INSTRUCTOR JOB (STG576).

This job, containing 34 airmen, is performed by less than 1 percent of the total survey sample. FTD instructors conduct follow-on training which certifies newly assigned airmen on specific aircraft. FTD training is conducted at operational bases and consists of "hands on" or "hot" training on actual aircraft systems in both the flight line and maintenance shop environment. An additional third course (hands-on or MRT) is required for specific aircrafts such as the C-130 and C-141. These MRT courses are taught by FTD instructors. These instructors spend 64 percent of their relative job time in Duty E, Performing General Airframe and Aircraft Maintenance, Duty B, Performing Training Activities, and Duty A, Performing Management and Supervisory Activities (see Table 4). The average number of tasks these members perform is 148. Representative tasks performed by members of this job include:

FTD INSTRUCTOR JOB			
	AD	AFRC	ANG
Number of members	31	2	1
Average number of tasks performed	145	0	0
Average time in present job	3 yrs	N/A	N/A
Average time in career field	12 yrs	N/A	N/A
Average TAFMS	13 yrs	N/A	N/A
Predominant paygrade	E-5	N/A	N/A

- conduct OJT
- evaluate progress of trainees
- direct training functions
- personalize lesson plans
- direct training functions
- connect or disconnect external electrical aircraft power
- operate aircraft interphones
- service aircraft accumulators
- service hydraulic system reservoirs
- clear Red-X conditions

#### MAJCOM REPRESENTATION IN FDT INSTRUCTOR JOB

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
0%	35%	6%	3%	0%	35%	0%	3%	0%	18%

Active duty personnel in this job average 13 years TAFMS, with none of these airmen in their first enlistment. Sixty-five percent of these incumbents hold the 7-skill level (see Table 5). Fifty percent of these instructors are in the E-5 paygrade, with an additional 47 percent in either E-6 or E-7 paygrade.

X. OJT INSTRUCTOR JOB (STG482). The 16 members of this small job represent less than 1 percent of the total survey sample. These airmen work in a variety of different functional areas such as: Flight Line, Training, or Hazardous Materials Office. These instructors perform a broader range of tasks than FDT instructor. They report only spending 9 percent of their relative job time on training in comparison to the 19 percent reported by FDT instructors. OJT Instructors perform more regular aerospace maintenance tasks than the FDT instructors, performing an average of 356 tasks. This is the highest number of tasks performed by any jobs or clusters identified. Thirty percent of their relative job time is spent in performing general airframe and aircraft maintenance; and 24 percent is spent on management and supervisory duties (see Table 4). Representative tasks performed by members of this job include:

OJT INSTRUCTOR JOB			
	AD	AFRC	ANG
Number of members	10	4	2
Average number of tasks performed	356	N/A	N/A
Average time in present job	2 yrs	N/A	N/A
Average time in career field	10 yrs	N/A	N/A
Average TAFMS	10 yrs	N/A	N/A
Predominant paygrade	E-5	N/A	N/A

- conduct training conferences, briefings or debriefings
- maintain training records or files
- conduct supervisory orientations for newly assigned personnel
- determine training requirements
- determine or establish work assignments or priorities
- evaluate in-process maintenance
- maintain or update contingency plans, mobility plans, or base support plans
- evaluate effectiveness or training programs, plans, or procedures
- connect or disconnect external electrical aircraft power
- coordinate cannibalization of parts with appropriate agencies

#### MAJCOM REPRESENTATION IN OJT INSTRUCTOR JOB

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
0%	0%	25%	6%	0%	50%	0%	13%	0%	6%

The active duty airmen in this group average 10 years TAFMS, with 20 percent in their first enlistment. The majority of these members are in the E-5 or E-6 paygrade and 50 percent indicated they directly supervise other personnel. Fifty-seven percent of these incumbents report holding the 5-skill level DAFSC (2A551J = 38 percent and 2A551L = 19 percent) and 31 percent hold the 7-skill level (see Table 5).

# **XI. AERO REPAIR CLUSTER (STG362).**

This job is performed by the second largest number of respondents within the career field (437 members), comprising 6 percent of the total sample. Members of this cluster spend 52 percent of their relative job time maintaining flight control and landing gear systems (see Table 4). Incumbents in this cluster perform an average of 180 tasks. They are responsible for adjusting, inspecting, removing, and installing flight control systems, such as rudders, elevators, aileron, and flaps. They also inspect, troubleshoot, and adjust landing gear and entry door systems. Representative tasks performed by members of this job include:

AERO REPAIR CLUSTER			
	AD	AFRC	ANG
Number of members	225	143	69
Average number of tasks performed	168	191	199
Average time in present job	4 yrs	N/A	N/A
Average time in career field	9 yrs	N/A	N/A
Average TAFMS	10 yrs	N/A	N/A
Predominant paygrade	E-5	E-6	E-6

- inspect flight control cable tensions
- check flight control surface travel, using protractors templates, or rigging devices
- adjust trailing edge flaps or trailing edge flap systems components
- adjust ailerons or aileron system components
- adjust elevators or elevator system components
- operationally check aileron system components
- adjust rudders or rudder control mechanisms
- remove or install trailing edge flaps
- operate landing gear or wheel well doors
- operationally check elevator systems
- adjust landing gear steering system components

## **MAJCOM REPRESENTATION IN AERO REPAIR CLUSTER**

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
3%	5%	33%	3%	2%	22%	1%	16%	0%	16%

Within this cluster, two major jobs were identified, distinguished primarily by relative time spent on certain duties. The first job makes up 94 percent of the cluster. These airmen spend more relative job time dealing with maintaining flight control systems than the other job within this cluster. The airmen in the second job spend more job time on inspecting, maintaining, and repairing entry and cargo doors and ramps than the first job.

This cluster has the highest percent of ANG personnel assigned (16 percent); and the primary MAJCOM represented within this cluster is AFRC (33 percent). Active duty airmen in this large cluster average 10 years TAFMS, with only 17 percent in their first enlistment. The primary

DAFSCs for this cluster are 2A551J (45 percent) and 2A571 (36 percent) (see Table 5). The predominate paygrades for this cluster is E-5 (39 percent) and E-6 (32 percent). Forty-seven percent of the airmen in this cluster supervise other personnel.

## XII. -21 ALTERNATE MISSION EQUIPMENT (AME) SUPPORT CLUSTER (STG206).

The 169 members of this cluster represent only 2 percent of the survey sample. Their primary responsibility is maintaining -21 AME and dual rail cargo handling systems on airlift aircraft. They also determine the layout and configuration of cargo compartments in accordance with the needs of the particular mission assigned. As expected, the largest percent of their job time (43 percent) is spent in Duty N, Maintaining -21 AME, Dual Rail Cargo Handling Systems, and -135 Cargo Handling Systems (see Table 4). They perform an average of 63 tasks. Representative tasks performed by members of this job include:

-21 AME SUPPORT CLUSTER			
	AD	AFRC	ANG
Number of members	95	57	17
Average number of tasks performed	51	80	77
Average time in present job	2 yrs	N/A	N/A
Average time in career field	7 yrs	N/A	N/A
Average TAFMS	7 yrs	N/A	N/A
Predominant paygrade	E-4	E-5	E-6

- remove or install -21 AME, other than seats
- inspect -21 AME, other than emergency equipment
- perform -21 AME downloads or uploads
- perform maintenance on -21 AME
- perform repairs on cargo compartment seats or litters
- maintain cargo loading winches
- pack or unpack -21 AME
- remove or install dual-rail or -135 cargo handling system components
- evaluate aircraft configuration changes
- repair seats
- pick up or deliver equipment, tools, parts, or supplies

## MAJCOM REPRESENTATION IN -21 AME SUPPORT CLUSTER

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
1%	3%	34%	1%	5%	37%	0%	10%	0%	10%

Within this cluster, several smaller jobs were identified. The jobs separate according to the amount of time incumbents spend in Duties A, E, and N, and the experience level of incumbents. Lesser experienced airmen in the career ladder spend more relative job time on maintaining general airframe and aircraft maintenance (Duty E). More experienced incumbents spent more relative job time maintaining -21 AME, Dual Rail and -135 Cargo Handling Systems (Duty N), and performing managerial and supervisory activities (Duty A).

Sixty-four percent of the personnel in this cluster hold the 5-skill level, with an additional 26 percent holding the 7-skill level. (see Table 5). The predominant paygrade held by these members is E-4. The average active duty TAFMS is 7 years, with 27 percent in their first enlistment.

### XIII. EQUIPMENT MANAGEMENT CLUSTER

(STG120). The 211 airmen in this cluster represent 3 percent of the total sample. They spend 45 percent of their relative job time in administrative and supply functions, which is a larger percent of their relative job time than members of any other job in the career ladder. This cluster is very specialized, with airmen performing an average of only 28 tasks. Incumbents spend the majority of their relative job time in Duty D, Performing General Supply and Equipment Activities (45 percent) and Duty A, Performing

EQUIPMENT MANAGEMENT CLUSTER			
	AD	AFRC	ANG
Number of members	205	5	1
Average number of tasks performed	28	0	0
Average time in present job	8 yrs	N/A	N/A
Average time in career field	8 yrs	N/A	N/A
Average TAFMS	9 yrs	N/A	N/A
Predominant paygrade	E-4	N/A	N/A

Management and Supervisory Activities (26 percent) (see Table 4). These airmen are responsible for controlling and issuing all equipment used by maintenance personnel. In addition, they inventory consolidated tool kits, evaluate the serviceability of equipment and supplies, and complete required maintenance forms. Representative tasks performed by members of this cluster include:

- store equipment, tools, parts, or supplies
- inventory equipment, tools, parts, or supplies
- issue or log turn-ins of equipment, tools, parts, or supplies
- evaluate serviceability of equipment, tools, parts, or supplies
- identify and report equipment or supply problems
- pick up or deliver equipment, tools, parts, or supplies
- maintain documentation on items requiring periodic inspections
- initiate requisitions for equipment, tools, parts, or supplies
- maintain documentation on items requiring periodic inspections

### MAJCOM REPRESENTATION IN EQUIPMENT MANAGEMENT CLUSTER

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
2%	6%	2%	5%	5%	53%	2%	1%	0%	24%

Three jobs were identified within this cluster. Members of the first job make up 38 percent of this cluster. They perform an average of only 16 tasks dealing primarily with the administrative area of supply and equipment activities such as: maintaining, inventorying, sorting, issuing or logging equipment, tools, parts or supplies. Eighty percent of these airmen report working primarily in the "Tool Crib," and 67 percent hold the job title of Consolidated Tool Kit Monitor.

The second group are more experienced personnel. They average performing an average of only 13 tasks. They coordinate material deficiency reports, handle due-in-from maintenance transactions, and initiate and justify requisitions for equipment, tools, parts or supplies.

The third group are the most experienced personnel in this cluster and they report supervising and managing the supply areas. They perform an average of 36 tasks. These airmen report working in three primary work areas: Tool Crib, Wheel and Tire Shop, and Materiel Support.

Sixty-six percent of the personnel in this cluster hold the 5-skill level (DAFSC 2A551J = 43 percent, DAFSC 2A551K = 6 percent, DAFSC 2A551L = 17 percent) and 23 percent hold a 7-skill level (see Table 5). These incumbents are predominately in the E-4 and E-5 paygrades. The average TAFMS for the active duty members in this cluster is 9 years. Eighteen percent of these airmen are in their first enlistment. Thirty-five percent of the airmen in this cluster report they supervise and only 12 percent are assigned outside CONUS.

#### XIV. FLIGHT LINE EXPEDITER JOB

(STG486). The 154 members of this job represent 2 percent of the total survey sample. Their primary function involves directing and coordinating activities of maintenance personnel. Expeditors perform their job by patrolling the flight line and relaying the operational needs of the flight line to the controllers. Seventy-one percent of their relative job time is spent in Duty A, Performing Management and Supervisory Activities and Duty O, Performing Maintenance Management Activities (see Table 4). They perform an average of only 49 tasks. Representative tasks performed by members of this job include:

FLIGHT LINE EXPEDITER JOB			
	AD	AFRC	ANG
Number of members	129	17	8
Average number of tasks performed	49	43	49
Average time in present job	3 yrs	N/A	N/A
Average time in career field	16 yrs	N/A	N/A
Average TAFMS	17 yrs	N/A	N/A
Predominant paygrade	E-7	E-7	E-7

- determine or establish work assignments or priorities
- review aircraft flight or maintenance records, such as AF Forms 781 series
- coordinate maintenance or supply problems with appropriate agencies
- coordinate cannibalization of parts with appropriate agencies
- coordinate aircraft launch and recovery times with aircrews or appropriate agencies
- plan or schedule work assignments or priorities
- clear Red-X conditions
- assign maintenance and repair work
- adjust daily maintenance plans to meet operation commitments

## MAJCOM REPRESENTATION IN FLIGHT LINE EXPEDITER JOB

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
5%	5%	11%	2%	4%	39%	2%	5%	1%	27%

Active duty members in this job average the highest TAFMS in the total survey sample with 17 years; none are in their first enlistment. Ninety-five percent of these members hold the 7- or 9-skill level and are in the E-6 or E-7 paygrade (see Table 5). Seventy-five percent of these members supervise. Thirteen percent of the airmen assigned to this cluster are assigned outside CONUS.

### XV. MAINTENANCE CONTROL JOB

(STG504). The 50 members of this job make up less than 1 percent of the total survey sample. On some flight lines they report to the Flight Line Expediter. Maintenance Controllers are responsible for acting as liaison between maintenance and other agencies, maintaining and updating status indicators of aircraft and recording the progress of maintenance on the flight line. Job incumbents spend the majority of their relative job time (46 percent) working in Duty A, Performing Management and Supervisory Activities, and Duty O, Performing Maintenance Management Activities (18 percent) (see Table 4). They perform an average of 50 tasks. Representative tasks performed by members of this job include:

MAINTENANCE CONTROL JOB			
	AD	AFRC	ANG
Number of members	39	5	6
Average number of tasks performed	52	39	50
Average time in present job	3 yrs	N/A	N/A
Average time in career field	13 yrs	N/A	N/A
Average TAFMS	14 yrs	N/A	N/A
Predominant paygrade	E-5	E-6	E-7

- access core automated maintenance systems (CAMS) or G0-81 menus and data screen
- retrieve CAMS or G0-81 listings or reports
- maintain or update status indicators, such as boards, graphs, or charts
- update maintenance data collection (MDC) data in CAMS or G0-81
- review flight schedules
- determine or establish work assignments or priorities
- coordinate maintenance or supply problems with appropriate agencies
- coordinate cannibalization of parts with appropriate agencies
- coordinate aircraft launch and recovery times with aircrews or appropriate agencies

## MAJCOM REPRESENTATION IN MAINTENANCE CONTROL JOB

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
4%	2%	10%	4%	6%	38%	0%	12%	0%	24%

Like members in the Flight Line Expediter, the personnel in this job are well experienced averaging 14 years TAFMS with none in their first enlistment. Seventy percent of members in this job hold the 7-skill level (see Table 5). Ninety-four percent of these members are in paygrade E-5 through E-7.

### XVI. SUPERVISOR CLUSTER (STG248).

Members of this cluster make up 7 percent of the total sample. These 498 members perform various jobs, all of which are supervisory in nature. For example, many members report such job titles as Flight Line Expediter, Maintenance Control Coordinator, Hazardous Material Specialist, and Flight Chief. Personnel in this cluster primarily perform supervisory and management tasks, and perform very few technical tasks. Sixty-five percent of their relative job time is spent in Duties A, Performing Management and Supervisory Activities, Duty B, Performing Training Activities, and Duty D, Performing Maintenance Management Activities (see Table 4). They perform an average of 91 tasks. Representative tasks performed by members of this cluster include:

SUPERVISOR CLUSTER			
	AD	AFRC	ANG
Number of members	417	58	23
Average number of tasks performed	88	102	119
Average time in present job	2 yrs	N/A	N/A
Average time in career field	15 yrs	N/A	N/A
Average TAFMS	16 yrs	N/A	N/A
Predominant paygrade	E-7	E-7	E-7

- supervise military personnel
- write performance reports or supervisory appraisals
- inspect personnel for compliance with military standards
- determine or establish work assignments or priorities
- counsel subordinates concerning personal matter
- participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting
- interpret policies, directives, or procedures for subordinates
- develop or establish work schedules
- establish performance standards for subordinates
- evaluate personnel for promotion, demotion, reclassification, or special awards

## MAJCOM REPRESENTATION IN SUPERVISOR CLUSTER

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
2%	8%	12%	7%	4%	38%	2%	5%	0%	23%

The three jobs within this cluster are distinguished by the amount of time spent in supervisory and technical duties, and the number of tasks performed. The airmen in the first job spend the least amount of their relative job time performing supervisory duties as compared to other jobs within the cluster. They spend their relative job time performing training and maintenance management activities. This group of supervisors perform an average of 163 tasks.

The airmen in the second job spend 57 percent of their relative job supervising and 12 percent performing training duties. This group of supervisors performs an average of 87 tasks. The personnel in the third job spend 73 percent of their relative job supervising and 11 percent performing training duties. This group of supervisors average performing only 32 tasks.

Active duty members of this cluster report the second highest level of experience, second only to the Flight Line Expediter Job. They average 16 years TAFMS with none in their first enlistment. Eighty-four percent of the airmen in this cluster hold the 7-skill level (see Table 5). Ninety-three percent of the airmen in this cluster report they supervise other personnel. The predominate paygrade is E-7 (53 percent) with 3 percent holding the 9-skill level.

#### **XVII. CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) JOB (STG520).**

The 133 members in this job represent 2 percent of the total survey sample. The focus of this job is on performing the CAMS functions. Most MAJCOMs use the standard Air Force CAMS, while AMC personnel use the CAMS or G0-81. These systems are used by aircraft maintenance personnel to update aircraft status and location, schedule discrepancies or review organizational maintenance, and debrief inquiry aircraft. Sixty-eight percent of their

CAMS JOB			
	AD	AFRC	ANG
Number of members	98	18	17
Average number of tasks performed	21	26	26
Average time in present job	2 yrs	N/A	N/A
Average time in career field	9 yrs	N/A	N/A
Average TAFMS	10 yrs	N/A	N/A
Predominant paygrade	E-4	E-6	E-7

relative job time is spend in Duty O, Performing Maintenance Management Activities and Duty A, Performing Management and Supervisory Activities (see Table 4). This job is fairly narrow, containing only 22 tasks. Representative tasks performed by members of this job are:

- access core automated maintenance system (CAMS) G0-81 menus and data screens
- retrieve CAMS or G0-81 listing or reports
- verify accuracy of CAMS or G0-81 daily inputs
- analyze CAMS or G0-81 data
- update maintenance data collection (MDC) data in CAMS or G0-81
- compile data for records, reports, logs, or trend analyses
- update historical reports in CAMS or G0-81

### MAJCOM REPRESENTATION IN CAMS JOB

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
2%	8%	14%	0%	1%	46%	1%	13%	0%	17%

Active duty personnel in this job average 10 years TAFMS, with 12 percent in their first enlistment. The predominate paygrades of job incumbents are E-4 (38 percent) and E-5 (24 percent). Fifty-six percent of airmen in this job hold the 5-skill level (DAFSC 2A551J = 37 percent, DAFSC 2A551K = 14 percent, DAFSC 2A551L = 15 percent) and 40 percent hold the 7-skill level (see Table 5). Thirty-five percent of the airmen in this job report they supervise.

**XVIII. TRAINING CLUSTER (STG379).** This cluster comprises 1 percent of the total survey sample. These 78 members conduct the technical school training that all Aerospace Maintenance personnel must attend. This training includes the Fundamentals course and the aircraft-specific training courses conducted at Sheppard AFB TX. This group of instructors spends an average of 50 percent of their relative job time in Duty B, Performing Training Activities. Unlike the FTD Instructor Job or the OJT Instructor Job, where only 38 percent is spent on training (see Table 4). The members in the Training Cluster perform an average of 38 tasks. Representative tasks performed by members of this cluster job include:

TRAINING CLUSTER			
	AD	AFRC	ANG
Number of members	73	5	0
Average number of tasks performed	37	45	0
Average time in present job	2 yrs	N/A	N/A
Average time in career field	12 yrs	N/A	N/A
Average TAFMS	13 yrs	N/A	N/A
Predominant paygrade	E-5	E-7	0

- direct training functions
- evaluate progress of trainees
- plan or schedule training
- develop training materials or aids
- conduct formal course classroom training
- administer or score tests
- personalize lesson plans
- develop training programs, plans, or procedures
- evaluate effectiveness of training programs, plans or procedures
- maintain training records of files

### MAJCOM REPRESENTATION IN TRAINING CLUSTER

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
1%	38%	6%	3%	4%	29%	1%	0%	0%	17%

Two jobs are found within this cluster. The instructors in the first job spend more relative job time performing training activities (61 percent) than the other instructor job within this cluster. The primary job titles reported by these instructors are Technical Training School Instructor (42 percent), Maintenance Instructor (18 percent), and Field Training Instructor (8 percent). They perform an average of 33 tasks.

The instructors in the second job spend 40 percent of their relative job time performing training activities and 37 percent performing management and supervisory activities. These airmen spend approximately 6 percent of their relative job time on technical duties. The primary job titles reported by these instructors are Training Manager (40 percent) and Training Monitor (40 percent). They perform an average of 43 tasks.

Sixty-five percent of the instructors in this cluster hold the 7-skill level and 34 percent hold the 5-skill level (see Table 5). The predominant paygrade is E-5 (44 percent), with an additional 47 percent comprised of E-6 and E-7. The average active duty TAFMS is 13 years with none of the members in their first enlistment. Forty-six percent of these job incumbents report they supervise.

**XIX. MOBILITY JOB (STG512).** The 40 members of this job comprise less than 1 percent of the total survey sample. This small group of experienced personnel are responsible for performing mobility and contingency activities. They spend 74 percent of their relative job time in Duty P, Performing Mobility and Contingency Activities (43 percent) and Duty A, Performing Management and Supervisory Activities (31 percent) (see Table 4). They perform an average of 54 tasks. Representative tasks performed by members of this job include:

MOBILITY JOB			
	AD	AFRC	ANG
Number of members	40	0	0
Average number of tasks performed	54	0	0
Average time in present job	2 yrs	N/A	N/A
Average time in career field	11 yrs	N/A	N/A
Average TAFMS	14 yrs	N/A	N/A
Predominant paygrade	E-5	0	0

- identify equipment or personnel requirements for mobility exercises or deployments
- brief deploying personnel
- review availability status of personnel for deployments
- verify eligibility of tasked personnel for deployments
- participate in mobility positions
- inspect mobility bags or kits
- develop inputs to mobility, contingency, disaster preparedness, or unit emergency or alert plans
- pack or palletize mobility or contingency equipment for shipment or movement
- plan deployments of equipment or personnel

## MAJCOM REPRESENTATION IN MOBILITY JOB

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
0%	0%	0%	3%	5%	45%	0%	0%	0%	48%

The active duty members in this job average 14 years TAFMS, with 6 percent in their first enlistment. Eighty-five percent are in the E-5 or higher paygrade; and 68 percent hold the 7-skill level (see Table 5).

### XX. TECHNICAL ORDER (TO) JOB

(STG546). This small group of 28 members comprise less than 1 percent of the total survey sample. This group monitors the Technical Order library and is responsible for the day-to-day operation of the technical library within the maintenance complex. This is a very narrowly focused job, with 84 percent of their relative job time spent in Duty C, Performing General Administrative and Technical Orders System Activities (see Table 4). They perform an average of only 16 tasks. Representative tasks performed by members of this job include:

TECHNICAL ORDER JOB			
	AD	AFRC	ANG
Number of members	26	1	1
Average number of tasks performed	16	N/A	N/A
Average time in present job	2 yrs	N/A	N/A
Average time in career field	9 yrs	N/A	N/A
Average TAFMS	10 yrs	N/A	N/A
Predominant paygrade	E-5	0	0

- maintain automated technical management system (ATOMS) accounts
- maintain technical order libraries
- review technical order changes
- establish ATOMS accounts
- review technical order changes
- maintain time compliance technical orders
- destroy classified materials
- determine or establish publication requirements
- conduct self-inspections or self-assessments
- maintain technical order operating lists

## MAJCOM REPRESENTATION IN TO JOB

USAFE	AETC	AFRC	PACAF	AFSOC	AMC	AFMC	ANG	ELM	ACC
4%	4%	4%	0%	0%	43%	7%	4%	0%	36%

These incumbents are experienced personnel, with 43 percent holding the 7-skill level (see Table 5). The predominate paygrades for these airmen are E-4 (32 percent), E-5 (39 percent) and E-6 (21 percent). The average TAFMS for the active duty personnel in this job is 10 years, with 24 percent in their first enlistment. Twenty-one percent of the airmen in this job report they supervise.

#### Comparison of Current Group Descriptions to Previous Study

The results of the specialty job analysis were compared to the last three OSRs, Airlift Aircraft Maintenance (formerly AFSC 457X2), Aircraft Pneudraulic Systems (formerly AFSC 454X4A), and Strategic Aircraft Maintenance (formerly AFSC 457X0) dated July 1992, June 1993, and January 1993 (respectively). Table 6 lists the jobs identified in the current study and their equivalent jobs from the three OSRs listed above. After reviewing the tasks comprising the jobs identified in the previous OSRs, most of the groups could be linked to similar jobs in the current study.

#### Current Study

The Crew Chief Cluster in the current study was broken down into four jobs in the Strategic Aircraft Maintenance OSR (1993): Crew Chief, Assistant Crew Chief, Aircraft Maintenance Team Job, and Flightline First-Line Supervisor Cluster. Some of the previously identified jobs did not match the jobs of the current study. Since the merger of the Aircraft Pneudraulics 'A' shred, Strategic Aircraft Maintenance, and the Airlift Aircraft Maintenance in 1993, some of the specificity of the former AFSCs have merged to form one job with a wider variety of tasks.

In the current study, some jobs were identified by the functional area as well as the type of aircraft systems maintained. As evidenced in the Depot Inspector Cluster, these airmen work at a large facility and primarily maintain heavy aircraft such as C-5, C-130, KC-135, and C-141. In comparison, the Dock Inspector Cluster job time is distributed between heavies and strategic aircraft such as: B-1, B-2, B-52, E-3, E-4, and E-8. Other jobs are separated according to type of inspections, maintenance, and repairs performed by members of the group.

Four jobs were identified in the current study that were not specifically identified in any of the previous studies. These jobs include Dock Inspector Cluster, Depot Inspector Cluster, OJT Instructor Job, and Mobility Job. One reason may be that the previous reports did not include AFRC. The Dock Inspector Cluster has 27 percent of their members assigned to AFRC; and the OJT Instructor Job has 25 percent of their members assigned to AFRC.

TABLE 6

## JOB SPECIALTY COMPARISONS BETWEEN CURRENT AND PREVIOUS SURVEYS

Aerospace Maintenance Current Survey (N=6,935)	Airlift Aircraft Maintenance Previously AFSC 457X2 July 1992 (N=2,873)	Aircraft Pneudraulic Systems Previously AFSC 454X4/A June 1993 (N=2,032)	Strategic Aircraft Maintenance Previously AFSC 457X0 January 1993 (N=3,440)
Transient Alert Job	Transient Alert		
Flight Line Maintenance Cluster	Flight Line Crew Chief		
Isochronal Inspector Job	Isochronal Inspector		Phase Inspector
Phase Inspector Job			Crew Chief
Dock Inspector Cluster			Assistant Crew Chief
Crew chief Cluster	Flight Mechanic		Aircraft Maintenance Team Job
			Flightline First-Line Supervisor Cluster
DEPOT Inspector Job			
Quality Assurance Evaluator Job	Quality Assurance Evaluation		Quality Assurance Evaluator Job
Field Training Detachment (FTD) Instructor Job		Field Training Detachment (FTD)	Field Training Detachment (FTD) Instructor Job
OJT Instructor Job			
Aero Repair Cluster		Aero Repair Cluster	
-21 Alternate Mission Equipment (AME) Support Cluster	-21 Alternate Mission Equipment (AME) Support Cluster 21 AME		

TABLE 6 (CONTINUED)

## JOB SPECIALTY COMPARISONS BETWEEN CURRENT AND PREVIOUS SURVEYS

Aerospace Maintenance Current Survey (N=6,935)	Airlift Aircraft Maintenance Previously AFSC 457X2 July 1992 (N=2,873)	Aircraft Pneudraulic Systems Previously AFSC 454X4/A June 1993 (N=2,032)	Strategic Aircraft Maintenance Previously AFSC 457X0 January 1993 (N=3,440)
Equipment Management Cluster	Supply Composite Tool Kit (CTK) Monitor Wheel and Tire Flight Line Expeditor Maintenance Control Coordinator	Supply	General Administrative & Supply Cluster
Flight Line Expediter Cluster Maintenance Control Job			Flight Line Expeditor
Supervisor Cluster	Supervisor Flight Line Supervisor	Management Cluster	Supervisory & Management Cluster
Core Automated Maintenance System (CAMS) Job Training Cluster Mobility Job	Automated Maintenance Control Training Instructor	Core Automated Maintenance System (CAMS) Job	Core Automated Maintenance System (CAMS) Job Technical School Personnel Job
Technical Orders Job Not identified as a separate job	Technical Order Monitor Refurbishment Mechanic		Technical Orders Monitor

TABLE 6 (CONTINUED)

## JOB SPECIALTY COMPARISONS BETWEEN CURRENT AND PREVIOUS SURVEYS

Aerospace Maintenance Current Survey (N=6,935)	Airlift Aircraft Maintenance Previously AFSC 457N2 July 1992 (N=2,873)	Aircraft Pneumatic Systems Previously AFSC 454X4/A June 1993 (N=2,032)	Strategic Aircraft Maintenance Previously AFSC 457X0 January 1993 (N=3,440)
Not identified as a separate job		Air Refueling Systems Maintenance Job	
Not identified as a separate job		Air Refueling Instructor Job	
Not identified as a separate job		In-Shop Pnedraulics Chief Cluster	
Not identified as a separate job		In-Shop Pnedraulics Repair Cluster	
Not identified as a separate job		Cross-Utilization Training	
Not identified as a separate job		Pnedraulics Repair Cluster	
Not identified as a separate job		C-141 In-Shop Pnedraulics Job	
Not identified as a separate job		B-1B Flightline Repair Job	
Not identified as a separate job			Deficiency Analysis Job

## Summary

In summary, structure analysis identified 7 clusters and 13 jobs. The core work performed by the Aerospace Maintenance career ladder is the Crew Chief Cluster, accounting for 52 percent of the specialty. The remaining jobs support this mission in such areas as: training and supervising aerospace maintenance personnel, documenting and tracking equipment and aircraft, and inspecting and maintaining aircraft.

## ANALYSIS OF AEROSPACE MAINTENANCE DAFSC GROUPS

An analysis of DAFSC groups, in conjunction with the analysis of the career ladder structure, is an important part of each occupational survey. DAFSC analysis examines differences in tasks performed between skill levels. This information may then be used to evaluate how well career ladder documents, such as AFMAN 36-2108 *Specialty Descriptions*, reflect what career ladder personnel are actually doing in the field.

Aerospace Maintenance personnel holding a 1-, 3-, or 5-skill level hold an aircraft specific shred. Shredouts A, B, C, D, E, F, G, and H are applicable to the 1- and 3-skill levels only. Shredouts J, K, and L are applicable at the 5-skill level only. Shredouts A, B, C, and D merge to form shredout J at the 5-skill level. Shredouts E and F merge at the 5-skill level to form shredout K. Shredouts G and H merge at the 5-skill level to form shredout L. There are no shreds at the 7- or 9-skill level (see chart below).

Aerospace Maintenance Specialty Shredouts				
2A511	2A531	2A551	2A571	2A590
A C-9/C-20/C-21/C-22/ C-141T-39/T-43	A C-9/C-20/C-21/C-22/ C-141/T-39/T-43	J C-5/C-9/C-17/C-20/C-21/ C-22/C-141T-39/T-43/ C-12/C-26/C-27/C-130		
B C-12/C-26/C-27/C-130	B C-12/C-26/C-27/C-130	K B-1/B-2/ B-52		
C C-5	C C-5	L C-135/C-18/E-3/E-4/ KC-10/VC-25/VC-137		
D C-17	D C-17			
E B-1/B-2	E B-1/B-2			
F B-52	F B-52			
G C-18/C-135/E-3/VC-25/ VC-137	G C-18/C-135/E-3/VC-25/ VC-137			
H E-4/KC-10	H E-4/KC-10			

The distribution of skill-level groups across the career ladder jobs are displayed in Table 7 (active duty), Table 8 (AFRC), and Table 9 (ANG). Tables 10 and 11 display percent time spent on each duty for active duty members. Table 12 displays relative percent time spent on duties by DAFSC groups for the AFRC and Table 13 displays the same information for the ANG. Appendix B displays the representative tasks for each shred with active duty, AFRC, and ANG combined. *Representative groups with less than five members were not included in the tables or in the narrative unless otherwise stated.*

A typical pattern of progression is noted within the AFSC 2A5X1X career ladder, with personnel at the 3-skill level spending most of their time on technical tasks. Personnel at the 3- and 5-skill levels work in the technical jobs of the career ladder and spend most of their relative job time on tasks involving the general airframe and aircraft maintenance. As incumbents move up to the 7-skill level, higher percentages of these members work in supervisory, managerial, and administrative tasks. At the 9-skill level, the incumbents work in the supervisory jobs or higher decision-making jobs such as Flight Line Expediter or Quality Assurance Evaluator.

#### Skill-Level Descriptions (Active Duty - AFSC 2A531A/B/C/D/E/F/G/H)

The 745 active duty airmen in DAFSC 2A531X represent 11 percent of the total survey sample and 17 percent of the total active duty sample. This group makes up 94 percent of all 3-skill levels in the sample. The average TAFMS for the airmen in this group is 2 years, and the predominate paygrade is E-3 (84 percent).

Sixty percent of active duty 3-skill level personnel work in the Crew Chief Cluster. Eight percent of these individuals work in the Flight Line Maintenance Cluster and 6 percent work in the Dock Inspector Cluster (see Table 7). The 3-skill level airmen in the different shreds report primarily working on the flight line, with a few airmen working in areas such as inspection docks, maintenance operations, or the tool crib.

These airmen report having job titles such as: Assistant Crew Chief, Flight Line Crew Chief, or Aircraft Crew Chief. They report spending the majority of their relative job time in Duty E, Performing Airframe and Aircraft Maintenance (47 percent) and Duty F, Maintaining Landing Gear Systems (10 percent). Representative tasks for active duty 3-skill level aerospace maintenance personnel are displayed on Table 14.

#### Active Duty

**DAFSC 2A531A.** The 103 airmen in DAFSC 2A531A represent 13 percent of all 3-skill level and 14 percent of active duty 3-skill level airmen. The DAFSC 2A531A personnel are responsible for maintaining the C-9, C-20, C-21, C-22, C-141, T-39, and T-43 aircraft.

TABLE 7

DISTRIBUTION OF DAFSC GROUP MEMBERS ACROSS SPECIALTY JOBS  
(PERCENT RESPONDING)  
ACTIVE

	DAFSC 2A531X (N=745)	DAFSC 2A531A (N=103)	DAFSC 2A531B (N=140)	DAFSC 2A531C (N=135)	DAFSC 2A531D (N=80)
I. Transient Alert Job	0	0	0	0	0
II. Flight Line Maintenance Cluster	8	6	4	7	10
III. Isochronal Inspector Job	1	2	1	1	1
IV. Phase Inspector Job	2	1	1	4	3
V. Dock Inspector Cluster	6	7	10	4	8
VI. Crew chief Cluster	60	52	60	58	56
VII. DEPOT Inspector Job	*	0	1	1	0
VIII. Quality Assurance Evaluator Job	0	0	0	0	0
IX. Field Training Detachment (FTD) Instructor Job	0	0	0	0	0
X. OJT Instructor Job	*	1	0	0	0
XI. Aero Repair Cluster	2	5	1	5	0
XII. -21 Alternate Mission Equipment (AME) Support Cluster	2	4	5	1	3
XIII. Equipment Management Cluster	3	3	3	2	6
XIV. Flight Line Expediter Cluster	0	0	0	0	0
XV. Maintenance Control Job	0	0	0	0	0
XVI. Supervisor Cluster	*	0	1	0	0
XVII. Core Automated Maintenance System (CAMS) Job	1	0	0	2	0
XVIII. Training Cluster	0	0	0	0	0
XIX. Mobility Job	0	0	0	0	0
XX. Technical Orders Job	*	1	0	0	0

\* Denotes less than .5 percent

NOTE: Columns may not add to 100 percent due to rounding

TABLE 7 (CONTINUED)

DISTRIBUTION OF DAFSC GROUP MEMBERS ACROSS SPECIALTY JOBS  
(PERCENT RESPONDING)

**ACTIVE**

	DAFSC 2A531E (N=40)	DAFSC 2A531F (N=36)	DAFSC 2A531G (N=101)	DAFSC 2A531H (N=110)	DAFSC 2A531X (N=2087)
I. Transient Alert Job	0	0	0	0	1
II. Flight Line Maintenance Cluster	5	17	15	8	2
III. Isochronal Inspector Job	0	3	0	0	*
IV. Phase Inspector Job	3	0	0	0	*
V. Dock Inspector Cluster	13	0	8	1	3
VI. Crew chief Cluster	63	67	63	68	55
VII. DEPOT Inspector Job	0	0	0	0	*
VIII. Quality Assurance Evaluator Job	0	0	0	0	*
IX. Field Training Detachment (FTD) Instructor Job	0	0	0	0	1
X. OJT Instructor Job	0	0	0	1	*
XI. Aero Repair Cluster	5	0	3	0	7
XII. -21 Alternate Mission Equipment (AME) Support Cluster	0	0	0	0	3
XIII. Equipment Management Cluster	3	3	2	5	7
XIV. Flight Line Expediter Cluster	0	0	0	0	*
XV. Maintenance Control Job	0	0	0	0	1
XVI. Supervisor Cluster	0	0	0	0	3
XVII. Core Automated Maintenance System (CAMS) Job	0	0	0	1	3
XVIII. Training Cluster	0	0	0	0	1
XIX. Mobility Job	0	0	0	0	1
XX. Technical Orders Job	0	0	1	1	1

\* Denotes less than .5 percent

NOTE: Columns may not add to 100 percent due to rounding

TABLE 7 (CONTINUED)

DISTRIBUTION OF DAFSC GROUP MEMBERS ACROSS SPECIALTY JOBS  
(PERCENT RESPONDING)

ACTIVE

	DAFSC 2A551J (N=1180)	DAFSC 2A551K (N=264)	DAFSC 2A551L (N=643)	DAFSC 2A571 (N=1527)	DAFSC 2A590 (N=34)
I. Transient Alert Job	1	0	1	*	0
II. Flight Line Maintenance Cluster	2	1	2	*	0
III. Isochronal Inspector Job	*	0	0	0	0
IV. Phase Inspector Job	*	0	0	0	0
V. Dock Inspector Cluster	3	2	3	1	0
VI. Crew chief Cluster	50	66	60	27	0
VII. DEPOT Inspector Job	1	0	0	*	0
VIII. Quality Assurance Evaluator Job	*	0	*	3	6
IX. Field Training Detachment (FTD) Instructor Job	*	1	1	1	0
X. OJT Instructor Job	*	0	1	*	0
XI. Aero Repair Cluster	7	6	6	5	3
XII. -21 Alternate Mission Equipment (AME) Support Cluster	4	0	2	1	0
XIII. Equipment Management Cluster	8	5	6	3	0
XIV. Flight Line Expediter Cluster	1	0	0	8	24
XV. Maintenance Control Job	1	*	1	2	0
XVI. Supervisor Cluster	3	*	4	23	41
XVII. Core Automated Maintenance System (CAMS) Job	4	2	3	2	6
XVIII. Training Cluster	2	*	1	3	0
XIX. Mobility Job	1	1	*	2	0
XX. Technical Orders Job	1	1	1	6	0

\* Denotes less than .5 percent

NOTE: Columns may not add to 100 percent due to rounding

TABLE 8

DISTRIBUTION OF DAFSC GROUP MEMBERS ACROSS SPECIALTY JOBS  
(PERCENT RESPONDING)  
AIR FORCE RESERVES

	DAFSC 2A531X (N=50)	DAFSC 2A531A (N=9)	DAFSC 2A531B (N=20)	DAFSC 2A531C (N=16)	DAFSC 2A531X (N=896)	DAFSC 2A531J (N=735)	DAFSC 2A531L (N=161)	DAFSC 2A571 (N=651)
I. Transient Alert Job	0	0	0	0	0	0	0	0
II. Flight Line Maintenance Cluster	10	0	10	0	4	4	6	2
III. Isochronal Inspector Job	0	0	0	0	1	1	*	*
IV. Phase Inspector Job	0	0	0	0	1	1	*	*
V. Dock Inspector Cluster	6	0	15	0	4	4	4	2
VI. Crew Chief Cluster	56	56	50	69	64	62	71	55
VII. DEPOT Inspector Job	0	0	0	0	0	0	0	*
VIII. Quality Assurance Evaluator Job	0	0	0	0	*	*	0	3
IX. Field Training Detachment (FTD) Instructor Job	0	0	0	0	0	0	0	*
X. OJT Instructor Job	0	0	0	0	*	*	0	1
XI. Aero Repair Cluster	2	0	5	0	10	11	6	9
XII. -21 Alternate Mission Equipment (AME) Support Cluster	6	33	0	0	4	4	0	3
XIII. Equipment Management Cluster	0	0	0	0	*	*	0	*
XIV. Flight Line Expediter Cluster	0	0	0	0	*	*	0	2
XV. Maintenance Control Job	0	0	0	0	0	0	0	1
XVI. Supervisor Cluster	0	0	0	0	*	*	0	9
XVII. Core Automated Maintenance System (CAMS) Job	0	0	0	0	*	*	1	2
XVIII. Training Cluster	0	0	0	0	*	*	1	1
XIX. Mobility Job	0	0	0	0	0	0	0	0
XX. Technical Orders Job	0	0	0	0	0	0	0	*

\* Denotes less than .5 percent

NOTE: Columns may not add to 100 percent due to rounding

TABLE 9

DISTRIBUTION OF DAFSC GROUP MEMBERS ACROSS SPECIALTY JOBS  
(PERCENT RESPONDING)  
**AIR NATIONAL GUARD**

	DAFSC 2A551X (N=565)	DAFSC 2A551J (N=275)	DAFSC 2A551K (N=42)	DAFSC 2A551L (N=248)	DAFSC 2A571 (N=372)	DAFSC 2A590 (N=5)
I. Transient Alert Job	0	0	0	0	0	0
II. Flight Line Maintenance Cluster	6	4	0	8	1	0
III. Isochronal Inspector Job	0	0	0	0	0	0
IV. Phase Inspector Job	*	*	0	0	0	0
V. Dock Inspector Cluster	4	3	0	4	1	0
VI. Crew Chief Cluster	72	70	74	73	64	0
VII. DEPOT Inspector Job	*	0	0	*	0	0
VIII. Quality Assurance Evaluator Job	*	*	0	0	3	60
IX. Field Training Detachment (FTD) Instructor Job	*	*	0	0	0	0
X. OJT Instructor Job	*	*	0	0	1	0
XI. Aero Repair Cluster	6	6	12	6	9	0
XII. -21 Alternate Mission Equipment (AME) Support Cluster	2	4	0	1	1	0
XIII. Equipment Management Cluster	0	0	0	0	1	0
XIV. Flight Line Expediter Cluster	0	0	0	0	2	0
XV. Maintenance Control Job	*	0	0	*	1	0
XVI. Supervisor Cluster	1	0	5	1	5	40
XVII. Core Automated Maintenance System (CAMS) Job	1	1	0	*	4	0
XVIII. Training Cluster	0	0	0	0	0	0
XIX. Mobility Job	0	0	0	0	0	0
XX. Technical Orders Job	*	0	2	0	0	0

\* Denotes less than .5 percent

NOTE: Columns may not add to 100 percent due to rounding

TABLE 10

RELATIVE PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS  
ACTIVE DUTY

DUTIES	2A531X (N=745)	2A531A (N=103)	2A531B (N=140)	2A531C (N=135)	2A531D (N=80)
A PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	3	2	3	2	4
B PERFORMING TRAINING ACTIVITIES	*	1	*	*	*
C PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	1	1	1	1	2
D PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	4	5	3	3	6
E PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	47	48	48	45	45
F MAINTAINING LANDING GEAR SYSTEMS	10	10	10	15	10
G MAINTAINING UTILITY SYSTEMS	5	4	5	7	4
H MAINTAINING FLIGHT CONTROL SYSTEMS	5	6	4	5	5
I MAINTAINING PNEUDRAULIC SYSTEMS	4	3	3	4	3
J MAINTAINING FUEL SYSTEMS	3	3	3	2	3
K MAINTAINING ELECTRICAL SYSTEMS	5	5	5	5	5
L MAINTAINING ENGINE SYSTEMS	4	3	4	3	3
M MAINTAINING AEROSPACE GROUND EQUIPMENT (AGE)	2	1	1	2	2
N MAINTAINING -21 AME, DUAL RAIL CARGO HANDLING SYSTEMS, AND -135 CARGO HANDLING SYSTEMS	3	5	5	1	4
O PERFORMING MAINTENANCE MANAGEMENT ACTIVITIES	3	3	2	4	4
P PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	1	0	1	*	1

\* Denotes less than 1 percent

NOTE: Columns may not add to 100 percent due to rounding

TABLE 10 (CONTINUED)

RELATIVE PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS  
ACTIVE DUTY

DUTIES	2A531E (N=40)	2A531F (N=36)	2A531G (N=101)	2A531H (N=110)
A PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	6	1	2	3
B PERFORMING TRAINING ACTIVITIES	*	*	*	*
C PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	2	*	1	1
D PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	3	4	3	5
E PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	50	45	47	45
F MAINTAINING LANDING GEAR SYSTEMS	9	8	11	6
G MAINTAINING UTILITY SYSTEMS	3	5	5	6
H MAINTAINING FLIGHT CONTROL SYSTEMS	5	4	7	5
I MAINTAINING PNEUDRAULIC SYSTEMS	4	5	5	5
J MAINTAINING FUEL SYSTEMS	3	5	4	5
K MAINTAINING ELECTRICAL SYSTEMS	5	6	5	4
L MAINTAINING ENGINE SYSTEMS	4	9	4	2
M MAINTAINING AEROSPACE GROUND EQUIPMENT (AGE)	3	2	2	3
N MAINTAINING -21 AME, DUAL RAIL CARGO HANDLING SYSTEMS, AND -135 CARGO HANDLING SYSTEMS	1	1	1	3
O PERFORMING MAINTENANCE MANAGEMENT ACTIVITIES	2	3	3	3
P PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	1	1	1	1

\* Denotes less than 1 percent

NOTE: Columns may not add to 100 percent due to rounding

TABLE 11

RELATIVE PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS  
ACTIVE DUTY

DUTIES	2A551X (N=2,087)	2A551J (N=1,180)	2A551K (N=264)	2A551L (N=643)	2A571 (N=1,527)	2A590 (N=34)
A PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	11	12	9	11	35	57
B PERFORMING TRAINING ACTIVITIES	4	4	3	4	7	4
C PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	3	3	4	3	5	6
D PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	6	6	4	6	5	3
E PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	32	32	36	32	17	6
F MAINTAINING LANDING GEAR SYSTEMS	8	8	7	8	5	2
G MAINTAINING UTILITY SYSTEMS	4	4	3	3	2	1
H MAINTAINING FLIGHT CONTROL SYSTEMS	6	6	5	7	3	1
I MAINTAINING PNEUDRAULIC SYSTEMS	4	3	5	4	2	1
J MAINTAINING FUEL SYSTEMS	2	2	3	3	1	*
K MAINTAINING ELECTRICAL SYSTEMS	4	4	4	3	2	1
L MAINTAINING ENGINE SYSTEMS	4	4	6	3	2	1
M MAINTAINING AEROSPACE GROUND EQUIPMENT (AGE)	1	1	2	1	1	*
N MAINTAINING -21 AME, DUAL RAIL CARGO HANDLING SYSTEMS, AND -135 CARGO HANDLING SYSTEMS	4	5	1	2	2	1
O PERFORMING MAINTENANCE MANAGEMENT ACTIVITIES	6	6	5	5	7	13
P PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	2	2	2	3	3	3

NOTE: Columns may not add to 100 percent due to rounding

TABLE 12

RELATIVE PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS  
**AIR FORCE RESERVES**

<u>DUTIES</u>	2A5X1X (N=1,599)	2A531X (N=50)	2A531A (N=9)	2A531B (N=20)	2A531C (N=16)
A PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	9	2	2	2	3
B PERFORMING TRAINING ACTIVITIES	3	*	1	*	*
C PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	1	*	1	*	*
D PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	2	3	6	1	4
E PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	38	47	42	52	43
F MAINTAINING LANDING GEAR SYSTEMS	11	10	6	10	13
G MAINTAINING UTILITY SYSTEMS	5	5	4	4	6
H MAINTAINING FLIGHT CONTROL SYSTEMS	7	4	3	4	5
I MAINTAINING PNEUDRAULIC SYSTEMS	4	4	3	3	5
J MAINTAINING FUEL SYSTEMS	3	3	3	2	3
K MAINTAINING ELECTRICAL SYSTEMS	4	6	4	7	6
L MAINTAINING ENGINE SYSTEMS	4	5	3	6	5
M MAINTAINING AEROSPACE GROUND EQUIPMENT (AGE)	1	2	1	2	3
N MAINTAINING -21 AME, DUAL RAIL CARGO HANDLING SYSTEMS, AND -135 CARGO HANDLING SYSTEMS	3	4	17	1	2
O PERFORMING MAINTENANCE MANAGEMENT ACTIVITIES	4	2	1	2	2
P PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	2	2	5	3	*

\* Denotes less than 1 percent

NOTE: DAFSC with less than 5 members in representative group were not included  
Columns may not add to 100 percent due to rounding

TABLE 12 (CONTINUED)

RELATIVE PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS  
AIR FORCE RESERVES

DUTIES	2A551X (N=893)	2A551J (N=735)	2A551L (N=161)	2A571 (N=651)
A PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	5	5	4	16
B PERFORMING TRAINING ACTIVITIES	2	2	2	4
C PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	1	1	1	3
D PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	2	2	2	2
E PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	42	42	42	31
F MAINTAINING LANDING GEAR SYSTEMS	12	12	11	9
G MAINTAINING UTILITY SYSTEMS	5	5	4	4
H MAINTAINING FLIGHT CONTROL SYSTEMS	7	7	8	6
I MAINTAINING PNEUDRAULIC SYSTEMS	4	4	6	4
J MAINTAINING FUEL SYSTEMS	3	3	4	2
K MAINTAINING ELECTRICAL SYSTEMS	5	5	5	4
L MAINTAINING ENGINE SYSTEMS	4	4	4	4
M MAINTAINING AEROSPACE GROUND EQUIPMENT (AGE)	1	1	2	1
N MAINTAINING -21 AME, DUAL RAIL CARGO HANDLING SYSTEMS, AND -135 CARGO HANDLING SYSTEMS	2	3	1	3
O PERFORMING MAINTENANCE MANAGEMENT ACTIVITIES	3	3	3	6
P PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	1	1	2	3

NOTE: DAFSC with less than 5 members in representative group were not included  
Columns may not add to 100 percent due to rounding

TABLE 13

RELATIVE PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS  
AIR NATIONAL GUARD

DUTIES	2A5X1X (N=943)	2A551X (N=565)	2A551J (N=275)	2A551K (N=42)	2A551L (N=248)	2A571 (N=372)	2A590 (N=5)
A PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	7	4	4	5	5	12	43
B PERFORMING TRAINING ACTIVITIES	2	1	1	1	1	3	4
C PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	2	1	1	3	1	2	3
D PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	2	2	2	2	2	3	3
E PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	37	42	42	40	42	31	12
F MAINTAINING LANDING GEAR SYSTEMS	11	11	12	11	10	10	5
G MAINTAINING UTILITY SYSTEMS	5	5	5	4	4	5	2
H MAINTAINING FLIGHT CONTROL SYSTEMS	7	8	7	9	8	7	3
I MAINTAINING PNEUDRAULIC SYSTEMS	5	5	4	5	6	4	2
J MAINTAINING FUEL SYSTEMS	3	3	3	3	3	2	1
K MAINTAINING ELECTRICAL SYSTEMS	5	5	6	6	5	4	2
L MAINTAINING ENGINE SYSTEMS	5	5	5	5	5	5	2
M MAINTAINING AEROSPACE GROUND EQUIPMENT (AGE)	1	2	2	2	2	1	*
N MAINTAINING -21 AME, DUAL RAIL CARGO HANDLING SYSTEMS, AND -135 CARGO HANDLING SYSTEMS	2	2	3	1	1	2	1
O PERFORMING MAINTENANCE MANAGEMENT ACTIVITIES	4	3	3	4	3	5	12
P PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	2	2	2	2	2	2	5

\* Denotes less than 1 percent

NOTE: DAFSC with less than 5 members in representative group were not included  
Columns may not add to 100 percent due to rounding

TABLE 14

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A531X PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=745)	
E297	Perform foreign object damage (FOD) walks	87
E179	Connect or disconnect external electrical aircraft power	86
E264	Operate aircraft interphones	81
E261	Open or close engine cowlings, panels, or doors	81
E304	Perform wing or tail walker procedures during aircraft towing	79
E294	Perform aircraft fueling or defueling	76
E257	Lubricate aircraft components	76
E389	Service aircraft tires	76
E307	Position fire extinguishers	74
E251	Launch or recover aircraft	73
E194	Inspect aircraft shock struts	73
E175	Clean aircraft windshields	73
E320	Remove or install aircraft hardware, such as screws or fasteners	72
E394	Service engines with oil	72
E176	Clean interior of aircraft	71
E188	Inspect access doors, hatches, or panels	71
E195	Inspect aircraft windows or windshields	70
E386	Service aircraft hydraulic systems	70
E295	Perform brake rider procedures during aircraft towing	70
F425	Inspect aircraft wheel and tire assemblies	69
E190	Inspect aircraft for corrosion	69
K789	Inspect external aircraft lights	69
E227	Inspect portable fire extinguishers	67
E250	Jack or level aircraft	67
F451	Inspect landing gear struts	64
O932	Clear Red-Diagonal conditions	62
K805	Remove or install aircraft batteries	62
E170	Bleed brake systems	61
O931	Clear Red-Dash conditions	60
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	59
L835	Inspect engine cowling, panel, or door latches	59
M890	Perform preuse inspections of nonpowered AGE	58
E212	Inspect crew or passenger comfort facilities, such as latrines or galleys	58
E265	Operate aircraft radios	58
E230	Inspect radomes	58
M891	Perform preuse inspections of powered AGE	57
K790	Inspect external power receptacles	57
K792	Inspect internal aircraft lights, other than emergency lights	57
F471	Remove or install aircraft brake assemblies or brake system components	57
J778	Transfer fuel within aircraft	56
E387	Service aircraft LOX systems	55
J759	Inspect aircraft for fuel leaks	55
F430	Inspect brake system components	55
E262	Open or close radomes	54
E321	Remove or install aircraft protective coverings, such as intake plugs	53

The average TAFMS for the active duty personnel in this group is 2 years and 1 month. The predominate paygrade for the A-shred group is E-3 (82 percent). Members in this shred are found predominately in two jobs: Crew Chief Cluster and Flight Line Maintenance Job (see Table 7).

The majority of their relative job time is spent in Duty E, Performing General Airframe and Aircraft Maintenance (47 percent) (see Table 10). The predominant job titles for the airmen in this group are: Flight Line Crew Chief, Flying Crew Chief, Assistant Crew Chief, and Aircraft Crew Chief. They work primarily on the flight line or the inspection docks. A-shred "Crew Chief" perform an average of 195 tasks. Typical tasks performed by members of this group are displayed in Table 15.

**DAFSC 2A531B** The 140 airmen in the DAFSC 2A531B group represents 18 percent of all 3-skill level airmen in the sample and 19 percent of active duty 3-skill level airmen. The B-shred active duty personnel average 1 year and 11 months TAFMS. Their predominate paygrades are E-2 and E-3 (29 percent and 56 percent, respectively). The 2A531B personnel are responsible for maintaining the C-12, C-26, C-27, and C-130 aircraft.

The majority of these airmen work in the Crew Chief Cluster (58 percent), with an additional 19 percent working in three other clusters: Flight Line Maintenance, Dock Inspector, and -21 AME Support (see Table 7). The majority of their job time is spent in Duty E, Performing General Airframe and Aircraft Maintenance (48 percent) and Duty F, Maintaining Landing Gear Systems (10 percent) (see Table 10). Typical tasks performed by members of this group are displayed in Table 16.

**DAFSC 2A531C** The 135 airmen in DAFSC 2A531C represent 17 percent of all 3-skill level airmen in the total sample and 18 percent of active duty 3-skill level airmen. The primary paygrades for these individuals are E-2 (21 percent) or E-3 (67 percent). The average TAFMS for the active duty airmen in this group is 2 years and 2 months. The 2A531C personnel are primarily responsible for maintaining the C-5 aircraft.

These airmen work primarily in two groups: the Crew Chief Cluster (54 percent) and Flight Line Maintenance Job (7 percent). They spend 45 percent of their relative job time in Duty E, Performing General Airframe and Aircraft Maintenance and 15 percent in Duty F, Maintaining Landing Gear Systems. The average number of tasks performed by the total C-shred airmen is 158 tasks. See Table 17 for typical tasks performed by members of this group.

**DAFSC 2A531D** The 80 airmen with DAFSC 2A531D represent 10 percent of all 3-skill level airmen in the sample and 11 percent of active duty 3-skill level airmen. The 2A531D personnel are responsible for maintaining the C-17 aircraft.

TABLE 15

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A531A PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=103)
E297	Perform foreign object damage (FOD) walks	83
E179	Connect or disconnect external electrical aircraft power	82
E264	Operate aircraft interphones	76
E257	Lubricate aircraft components	74
E261	Open or close engine cowlings, panels, or doors	73
E320	Remove or install aircraft hardware, such as screws or fasteners	72
E304	Perform wing or tail walker procedures during aircraft towing	71
E188	Inspect access doors, hatches, or panels	70
E389	Service aircraft tires	70
E295	Perform brake rider procedures during aircraft towing	69
E251	Launch or recover aircraft	68
E175	Clean aircraft windshields	68
E307	Position fire extinguishers	67
E294	Perform aircraft fueling or defueling	65
E190	Inspect aircraft for corrosion	64
E394	Service engines with oil	64
E387	Service aircraft LOX systems	64
F425	Inspect aircraft wheel and tire assemblies	63
E262	Open or close radomes	63
E195	Inspect aircraft windows or windshields	62
E250	Jack or level aircraft	62
E386	Service aircraft hydraulic systems	61
O932	Clear Red-Diagonal conditions	60
K789	Inspect external aircraft lights	60
E206	Inspect cargo ramp seals	60
E392	Service engine CSDs or IDGs	59
E194	Inspect aircraft shock struts	59
E227	Inspect portable fire extinguishers	59
E176	Clean interior of aircraft	56
J778	Transfer fuel within aircraft	56
O931	Clear Red-Dash conditions	55
E210	Inspect crew door systems	55
K805	Remove or install aircraft batteries	55
E322	Remove or install aircraft windows or windshields	55
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	54
E201	Inspect blow-out doors	54
E260	Moor aircraft	54
E170	Bleed brake systems	54
E204	Inspect cargo door or ramp mechanical components	53
F451	Inspect landing gear struts	53
E212	Inspect crew or passenger comfort facilities, such as latrines or galleys	52
F426	Inspect aircraft wheel bearings	52
E365	Remove or install radomes	52
E314	Remove or install access doors, hatches, or panels	51
E275	Operationally check cargo doors or ramps	51

TABLE 16

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A531B PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=140)
E297 Perform foreign object damage (FOD) walks	85
E179 Connect or disconnect external electrical aircraft power	84
E264 Operate aircraft interphones	84
E261 Open or close engine cowlings, panels, or doors	81
E304 Perform wing or tail walker procedures during aircraft towing	81
E257 Lubricate aircraft components	79
E294 Perform aircraft fueling or defueling	78
E194 Inspect aircraft shock struts	77
E250 Jack or level aircraft	76
E190 Inspect aircraft for corrosion	76
E176 Clean interior of aircraft	75
E389 Service aircraft tires	74
E188 Inspect access doors, hatches, or panels	73
E175 Clean aircraft windshields	72
E260 Moor aircraft	72
E307 Position fire extinguishers	71
E195 Inspect aircraft windows or windshields	71
E170 Bleed brake systems	71
E251 Launch or recover aircraft	70
E262 Open or close radomes	70
E320 Remove or install aircraft hardware, such as screws or fasteners	69
E265 Operate aircraft radios	69
E387 Service aircraft LOX systems	69
K789 Inspect external aircraft lights	67
E291 Operationally check troop doors	66
E235 Inspect seats, seatbelts, inertial reels, or shoulder harnesses	66
E295 Perform brake rider procedures during aircraft towing	66
E352 Remove or install liferafts	66
F425 Inspect aircraft wheel and tire assemblies	64
E227 Inspect portable fire extinguishers	64
E321 Remove or install aircraft protective coverings, such as intake plugs	64
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	64
F451 Inspect landing gear struts	64
E230 Inspect radomes	64
E394 Service engines with oil	64
E386 Service aircraft hydraulic systems	63
E243 Inspect troop door systems	63
E210 Inspect crew door systems	62
E275 Operationally check cargo doors or ramps	61
F457 Lubricate main landing gear jack screws	61
F455 Inspect main landing gear jack screws	61
K805 Remove or install aircraft batteries	61
E234 Inspect seat locking mechanisms	60
L835 Inspect engine cowling, panel, or door latches	60
K792 Inspect internal aircraft lights, other than emergency lights	59

TABLE 17

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A531C PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=135)
E297	Perform foreign object damage (FOD) walks	89
E179	Connect or disconnect external electrical aircraft power	84
E304	Perform wing or tail walker procedures during aircraft towing	84
E320	Remove or install aircraft hardware, such as screws or fasteners	79
E389	Service aircraft tires	79
E261	Open or close engine cowlings, panels, or doors	79
E257	Lubricate aircraft components	79
E307	Position fire extinguishers	78
E294	Perform aircraft fueling or defueling	76
E387	Service aircraft LOX systems	76
E394	Service engines with oil	76
E386	Service aircraft hydraulic systems	73
F425	Inspect aircraft wheel and tire assemblies	73
E250	Jack or level aircraft	71
O932	Clear Red-Diagonal conditions	70
E194	Inspect aircraft shock struts	69
E295	Perform brake rider procedures during aircraft towing	69
K789	Inspect external aircraft lights	68
E175	Clean aircraft windshields	68
E176	Clean interior of aircraft	67
E188	Inspect access doors, hatches, or panels	67
E265	Operate aircraft radios	67
F451	Inspect landing gear struts	67
F448	Inspect landing gear roll pin lock tabs	67
E251	Launch or recover aircraft	65
O931	Clear Red-Dash conditions	64
E190	Inspect aircraft for corrosion	64
E227	Inspect portable fire extinguishers	64
K805	Remove or install aircraft batteries	64
F457	Lubricate main landing gear jack screws	63
E195	Inspect aircraft windows or windshields	63
F441	Inspect landing gear gudgeon pin lock tabs	63
F455	Inspect main landing gear jack screws	62
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	61
E204	Inspect cargo door or ramp mechanical components	61
L835	Inspect engine cowling, panel, or door latches	60
E196	Inspect aircrew worktables	60
E392	Service engine CSDs or IDGs	60
E170	Bleed brake systems	60
K796	Operationally check aircraft batteries	59
K790	Inspect external power receptacles	59
K792	Inspect internal aircraft lights, other than emergency lights	59
F430	Inspect brake system components	59
E400	Take engine oil samples for analysis, such as joint oil analysis program (JOAP)	59
M890	Perform preuse inspections of nonpowered AGE	58

The average TAFMS for this group is 2 years and 8 months, and their primary paygrades are E-2 (33 percent) and E-3 (64 percent). They work primarily in 4 clusters: Crew Chief (56 percent), Flight Line Maintenance (10 percent), Dock Inspector (8 percent), and Equipment Management (6 percent) (see Table 10). The average number of tasks performed by the total D-shred airmen is 128.

Like the C-shred airmen, the D-shred airmen spend 45 percent of their relative job time in Duty E, Performing General Airframe and Aircraft Maintenance. However, D-Shred airmen spend only 10 percent of the relative job time Duty F, Maintaining Landing Gear Systems. This group of airmen spends more of their relative job time in Duty D, Performing General Supply and Equipment Activities (6 percent) than any other 3-skill level shred in this specialty (see Table 10). Typical tasks performed by members of this group are displayed on Table 18.

**DAFSC 2A531E.** The 40 airmen in the DAFSC 2A531E represent 5 percent of all 3-skill level airmen in the sample and 5 percent of active duty 3-skill level airmen. This group holds the highest TAFMS for the active duty 3-skill level airmen. Their average TAFMS is 2 years and 6 months, and 83 percent are in the E-3 paygrade.

The 2A531E personnel are responsible for maintaining the B-1 and B-2 aircraft. All the members of this group are assign to CONUS. Like the other 3-skill level groups in this specialty, these airmen primarily work in the Crew Chief Cluster (63 percent) and the Dock Inspector Cluster (13 percent). These airmen average 119 tasks and primarily work on the flight line or inspection docks. These incumbents report job titles such as: Assistant Crew Chief, Dedicated Crew Chief, or Flight Line Crew Chief. Typical tasks performed by members of this group are displayed in Table 19.

**DAFSC 2A531F.** The 36 airmen in the DAFSC 2A531F are all active duty. This group makes up 5 percent of all 3-skill level personnel in the total sample and 5 percent of active duty 3-skill level airmen. The average TAFMS for these members is 2 years, and 78 percent are in either the E-2 or E-3 paygrade.

The 2A531F personnel are responsible for maintaining the B-52 aircraft. The members in this group work primarily in the Crew Chief (67 percent) and Flight Line Maintenance (17 percent) clusters. They work primarily on the flight line. These airmen report job titles such as Aircraft Crew Chief, Assistant Crew Chief, or Flight Line Crew Chief (see Table 5). They perform an average number of 124 tasks. Typical tasks performed by members of this group are displayed in Table 20.

**DAFSC 2A531G.** The 101 airmen in the DAFSC 2A531G represent 13 percent of all 3-skill level airmen in the total sample and 14 percent of active duty 3-skill level airmen. The 2A531G personnel are responsible for maintaining the C-18, C-135, E-3, VC-25, and VC-137 aircraft.

TABLE 18

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A531D PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=80)
E297	Perform foreign object damage (FOD) walks	89
E179	Connect or disconnect external electrical aircraft power	86
E264	Operate aircraft interphones	81
E261	Open or close engine cowlings, panels, or doors	79
F425	Inspect aircraft wheel and tire assemblies	78
E307	Position fire extinguishers	78
E257	Lubricate aircraft components	76
E304	Perform wing or tail walker procedures during aircraft towing	75
E188	Inspect access doors, hatches, or panels	73
E389	Service aircraft tires	73
O931	Clear Red-Dash conditions	73
E294	Perform aircraft fueling or defueling	71
E195	Inspect aircraft windows or windshields	71
O932	Clear Red-Diagonal conditions	71
K789	Inspect external aircraft lights	70
E227	Inspect portable fire extinguishers	70
E387	Service aircraft LOX systems	69
E251	Launch or recover aircraft	68
E320	Remove or install aircraft hardware, such as screws or fasteners	68
E176	Clean interior of aircraft	68
E386	Service aircraft hydraulic systems	68
E190	Inspect aircraft for corrosion	66
E175	Clean aircraft windshields	66
E394	Service engines with oil	65
E194	Inspect aircraft shock struts	64
F451	Inspect landing gear struts	64
E275	Operationally check cargo doors or ramps	64
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	63
E260	Moor aircraft	63
E250	Jack or level aircraft	61
K790	Inspect external power receptacles	61
E291	Operationally check troop doors	61
E214	Inspect engine pylons or aprons	60
L835	Inspect engine cowling, panel, or door latches	58
E187	Drain or replace aircraft engine oil	58
K792	Inspect internal aircraft lights, other than emergency lights	58
E204	Inspect cargo door or ramp mechanical components	56
E279	Operationally check entry door systems	55
E229	Inspect pressure seals, such as crew door, ramp, or visor	55
O946	Review aircraft flight or maintenance records, such as AF Forms 781 series	54
L836	Inspect engine cowlings, panels, or doors	54
E277	Operationally check emergency hatches or doors	54
E206	Inspect cargo ramp seals	54
E352	Remove or install liferafts	53
E295	Perform brake rider procedures during aircraft towing	53

TABLE 19

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A531E PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=40)
E297	Perform foreign object damage (FOD) walks	90
E179	Connect or disconnect external electrical aircraft power	88
E264	Operate aircraft interphones	88
E261	Open or close engine cowlings, panels, or doors	85
E194	Inspect aircraft shock struts	85
E251	Launch or recover aircraft	83
E386	Service aircraft hydraulic systems	83
E188	Inspect access doors, hatches, or panels	80
E180	Connect or disconnect hydraulic test stands to or from aircraft	80
E294	Perform aircraft fueling or defueling	78
E304	Perform wing or tail walker procedures during aircraft towing	78
E389	Service aircraft tires	78
E224	Inspect overwing fairings	78
E190	Inspect aircraft for corrosion	78
E220	Inspect magnetic chip detectors	78
E257	Lubricate aircraft components	78
E394	Service engines with oil	75
E189	Inspect accessory drive gearboxes (ADGs)	75
E269	Operate weapons bay doors	75
E250	Jack or level aircraft	75
E295	Perform brake rider procedures during aircraft towing	73
E388	Service aircraft nitrogen systems	73
E392	Service engine CSDs or IDGs	73
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	73
E320	Remove or install aircraft hardware, such as screws or fasteners	70
E307	Position fire extinguishers	70
E195	Inspect aircraft windows or windshields	70
E245	Inspect weapons bay doors	70
F451	Inspect landing gear struts	70
E321	Remove or install aircraft protective coverings, such as intake plugs	68
K789	Inspect external aircraft lights	68
E396	Service gaseous oxygen systems	68
E183	Dispose of hazardous materials	68
E296	Perform chip detector ohm tests on aircraft components	68
E391	Service crew or passenger comfort facilities, such as latrines or galleys	65
M890	Perform preuse inspections of nonpowered AGE	65
E175	Clean aircraft windshields	65
E267	Operate landing gear or wheel well doors	65
E262	Open or close radomes	65
E266	Operate centralized aircraft support systems (CASSs)	63
O928	Access core automated maintenance system (CAMS) or G0-81 menus and data screens	63
E212	Inspect crew or passenger comfort facilities, such as latrines or galleys	63
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	63
E176	Clean interior of aircraft	63
J778	Transfer fuel within aircraft	63
F425	Inspect aircraft wheel and tire assemblies	63

TABLE 20

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A531F PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=36)	
E261	Open or close engine cowlings, panels, or doors	92
E179	Connect or disconnect external electrical aircraft power	92
E297	Perform foreign object damage (FOD) walks	92
E307	Position fire extinguishers	92
E304	Perform wing or tail walker procedures during aircraft towing	86
E251	Launch or recover aircraft	86
K789	Inspect external aircraft lights	86
E161	Adjust engine cowlings, panel, or door latches	83
L835	Inspect engine cowlings, panel, or door latches	83
E394	Service engines with oil	83
E175	Clean aircraft windshields	83
E264	Operate aircraft interphones	81
E389	Service aircraft tires	81
E386	Service aircraft hydraulic systems	81
G565	Remove or install drag chutes	81
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	81
E320	Remove or install aircraft hardware, such as screws or fasteners	78
E194	Inspect aircraft shock struts	78
E257	Lubricate aircraft components	78
L860	Remove or install engine cowlings, panels, or doors	78
K792	Inspect internal aircraft lights, other than emergency lights	78
E176	Clean interior of aircraft	78
E195	Inspect aircraft windows or windshields	75
E294	Perform aircraft fueling or defueling	75
L836	Inspect engine cowlings, panels, or doors	75
E295	Perform brake rider procedures during aircraft towing	75
L859	Remove or install engine cowlings, panel, or door latches	75
E227	Inspect portable fire extinguishers	75
F425	Inspect aircraft wheel and tire assemblies	75
E400	Take engine oil samples for analysis, such as joint oil analysis program (JOAP)	75
E186	Drain liquid oxygen (LOX) systems	75
E188	Inspect access doors, hatches, or panels	72
E387	Service aircraft LOX systems	72
M891	Perform preuse inspections of powered AGE	72
J780	Verify aircraft fuel tank quantity with dipstick or sight gauge	72
J759	Inspect aircraft for fuel leaks	72
J778	Transfer fuel within aircraft	72
I738	Service aircraft accumulators	72
K790	Inspect external power receptacles	72
E262	Open or close radomes	72
J756	Drain aircraft fuel tanks	72
E369	Remove or install safety devices, such as seat pins or gear locks	69
M890	Perform preuse inspections of nonpowered AGE	69
O932	Clear Red-Diagonal conditions	67
E392	Service engine CSDs or IDGs	67

The average TAFMS for this G-shred group is 2 years. The predominate paygrade is E-3 (82 percent) with only 12 percent in paygrade E-4. This group has the highest percentage of 3-skill level airmen assigned outside CONUS, 11 percent. These airmen primarily work in the Crew Chief Cluster (63 percent), with an additional 15 percent working in the Flight Line Maintenance Cluster. Like the F-shred personnel, the G-shred airmen work predominately on the flight line and reported their primary job titles as Aircraft Crew Chief, Assistant Crew Chief, or Flight Line Crew Chief. But unlike F-shred personnel who work solely on the B-52, the personnel in the G-shred work on numerous heavy aircraft such as: E-3, E-4, EC-135, DC-135, RC-135, C-135, WC-135, and KC-135. These G-shred airmen perform an average of 154 tasks. Typical tasks performed by members of this group are displayed in Table 21.

**DAFSC 2A531H.** The 110 airmen in the DAFSC 2A531H represent 14 percent of all 3-skill level airmen in the total sample, and 15 percent of all the active duty 3-skill level airmen. The H-shred personnel are responsible for maintaining KC-10 and E-4 aircraft.

The average TAFMS for this group is 1 year and 11 months. Ninety-two percent of these airmen are in the paygrades of E-3 or lower. They work primarily in 3 clusters: the Crew Chief Cluster (68 percent) the Flight Line Maintenance Cluster (8 percent), or the Equipment Management Cluster (5 percent). These airmen reported working primarily in the flight line and hold job titles such as: Aircraft Crew Chief, Assistant Crew Chief, or Flight Line Crew Chief. The average number of tasks performed by the total active duty H-shred airmen is 135 tasks. Typical tasks performed by member of this group are displayed on Table 22.

#### Skill-Level Descriptions (Active Duty - DAFSC 2A551J/K/L)

**DAFSC 2A551X.** The 2,087 active duty airmen holding the 5-skill level comprise the largest skill-level group in the career ladder. They make up 30 percent of the total survey sample, 48 percent of the active duty sample, and 59 percent of all the 5-skill level personnel surveyed.

These active duty airmen average 8 years TAFMS. The members of this group primarily are in the E-4 and E-5 paygrade (50 and 44 percent, respectively). Most of these 5-skill level members belong to the Crew Chief Cluster (55 percent), with 7 percent working in Aero Repair Cluster, and another 7 percent working in the Equipment Management Cluster (see Table 7). Like their 3-skill level counterparts, they too spend the majority of their job time in Duty E, Performing General Airframe and Aircraft Maintenance. But as one would expect, they spend more relative job time in supervisory duties in comparison to 3-skill level individuals (see Table 11). Forty-three percent of these 5-skill level airmen report supervising. Table 23 lists representative tasks performed by this group.

TABLE 21

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A531G PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=101)	
E179	Connect or disconnect external electrical aircraft power	94
E297	Perform foreign object damage (FOD) walks	91
E261	Open or close engine cowlings, panels, or doors	90
E175	Clean aircraft windshields	86
E304	Perform wing or tail walker procedures during aircraft towing	85
E264	Operate aircraft interphones	82
E294	Perform aircraft fueling or defueling	82
E176	Clean interior of aircraft	82
E295	Perform brake rider procedures during aircraft towing	82
E194	Inspect aircraft shock struts	82
E394	Service engines with oil	80
E389	Service aircraft tires	80
E251	Launch or recover aircraft	79
E307	Position fire extinguishers	79
E386	Service aircraft hydraulic systems	78
E267	Operate landing gear or wheel well doors	78
E195	Inspect aircraft windows or windshields	77
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	76
E320	Remove or install aircraft hardware, such as screws or fasteners	76
E188	Inspect access doors, hatches, or panels	75
E227	Inspect portable fire extinguishers	75
E257	Lubricate aircraft components	74
K805	Remove or install aircraft batteries	73
E170	Bleed brake systems	73
K789	Inspect external aircraft lights	72
E201	Inspect blow-out doors	69
F425	Inspect aircraft wheel and tire assemblies	69
F471	Remove or install aircraft brake assemblies or brake system components	69
E369	Remove or install safety devices, such as seat pins or gear locks	68
E190	Inspect aircraft for corrosion	68
E391	Service crew or passenger comfort facilities, such as latrines or galleys	68
F497	Remove or install wheel and tire assemblies	68
G540	Inspect portable oxygen bottles	68
E321	Remove or install aircraft protective coverings, such as intake plugs	66
I738	Service aircraft accumulators	66
F451	Inspect landing gear struts	66
E381	Remove snow or ice from aircraft	66
M891	Perform preuse inspections of powered AGE	65
J759	Inspect aircraft for fuel leaks	65
H614	Inspect elevators	65
E205	Inspect cargo loading struts or tail stands	64
E212	Inspect crew or passenger comfort facilities, such as latrines or galleys	64
L836	Inspect engine cowlings, panels, or doors	64
M890	Perform preuse inspections of nonpowered AGE	63
L835	Inspect engine cowlings, panels, or door latches	63

TABLE 22

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A531H PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=110)	
E297	Perform foreign object damage (FOD) walks	84
E179	Connect or disconnect external electrical aircraft power	83
E294	Perform aircraft fueling or defueling	80
E175	Clean aircraft windshields	80
E261	Open or close engine cowlings, panels, or doors	80
E176	Clean interior of aircraft	79
E251	Launch or recover aircraft	79
E392	Service engine CSDs or IDGs	79
E394	Service engines with oil	79
E194	Inspect aircraft shock struts	79
E264	Operate aircraft interphones	78
E389	Service aircraft tires	78
E257	Lubricate aircraft components	75
E267	Operate landing gear or wheel well doors	75
E295	Perform brake rider procedures during aircraft towing	75
E304	Perform wing or tail walker procedures during aircraft towing	74
E396	Service gaseous oxygen systems	74
E227	Inspect portable fire extinguishers	74
E265	Operate aircraft radios	74
E195	Inspect aircraft windows or windshields	73
K789	Inspect external aircraft lights	73
E190	Inspect aircraft for corrosion	72
F425	Inspect aircraft wheel and tire assemblies	72
E400	Take engine oil samples for analysis, such as joint oil analysis program (JOAP)	72
E307	Position fire extinguishers	71
J759	Inspect aircraft for fuel leaks	70
E320	Remove or install aircraft hardware, such as screws or fasteners	69
E183	Dispose of hazardous materials	69
E230	Inspect radomes	69
M891	Perform preuse inspections of powered AGE	68
M890	Perform preuse inspections of nonpowered AGE	68
E386	Service aircraft hydraulic systems	68
F451	Inspect landing gear struts	67
E214	Inspect engine pylons or aprons	66
J778	Transfer fuel within aircraft	66
E212	Inspect crew or passenger comfort facilities, such as latrines or galleys	65
E188	Inspect access doors, hatches, or panels	65
J756	Drain aircraft fuel tanks	63
L835	Inspect engine cowlings, panels, or door latches	62
O931	Clear Red-Dash conditions	61
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	61
K790	Inspect external power receptacles	61
K805	Remove or install aircraft batteries	61

TABLE 23

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A551X PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=2,087)	
E297	Perform foreign object damage (FOD) walks	74
E179	Connect or disconnect external electrical aircraft power	73
O932	Clear Red-Diagonal conditions	69
O931	Clear Red-Dash conditions	67
E264	Operate aircraft interphones	67
E304	Perform wing or tail walker procedures during aircraft towing	66
E261	Open or close engine cowlings, panels, or doors	65
E389	Service aircraft tires	63
E194	Inspect aircraft shock struts	63
E257	Lubricate aircraft components	63
E320	Remove or install aircraft hardware, such as screws or fasteners	62
E188	Inspect access doors, hatches, or panels	62
E307	Position fire extinguishers	62
E295	Perform brake rider procedures during aircraft towing	62
O928	Access core automated maintenance system (CAMS) or G0-81 menus and data screens	61
E294	Perform aircraft fueling or defueling	61
E250	Jack or level aircraft	61
E251	Launch or recover aircraft	60
E195	Inspect aircraft windows or windshields	60
E190	Inspect aircraft for corrosion	59
E175	Clean aircraft windshields	59
F425	Inspect aircraft wheel and tire assemblies	58
E386	Service aircraft hydraulic systems	58
E176	Clean interior of aircraft	57
E227	Inspect portable fire extinguishers	57
E394	Service engines with oil	57
K789	Inspect external aircraft lights	57
F451	Inspect landing gear struts	57
M890	Perform preuse inspections of nonpowered AGE	55
E265	Operate aircraft radios	55
E230	Inspect radomes	55
M891	Perform preuse inspections of powered AGE	54
K805	Remove or install aircraft batteries	54
J778	Transfer fuel within aircraft	53
E153	Adjust access door or hatch latching mechanisms or linkages	53
E170	Bleed brake systems	53
O946	Review aircraft flight or maintenance records, such as AF Forms 781 series	52
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	52
E262	Open or close radomes	52
A27	Direct aircraft refueling or defueling operations	51
E303	Perform tow vehicle operator procedures during aircraft towing	51
E321	Remove or install aircraft protective coverings, such as intake plugs	51
J759	Inspect aircraft for fuel leaks	51
L835	Inspect engine cowlings, panels, or door latches	51
I738	Service aircraft accumulators	51

**DAFSC 2A551J.** The 2A531A, 2A531B, 2A531C and 2A531D DAFSCs merge at the 5-skill level to form the 2A551J DAFSC. This group is responsible for the following aircraft: C-5, C-9, C-12, C-17, C-20, C-21, C-22, C-26, C-27, C-130, C-141, T-39, and T-43 aircraft. The 1,180 airmen in the DAFSC 2A551J represent 33 percent of all 5-skill level members in the survey and 57 percent of all active duty 5-skill level airmen.

The members in this group average 7 years and 11 months TAFMS and 95 percent are either in the E-4 or E-5 paygrade. Sixteen percent are stationed outside of CONUS. Fifty percent of this group work in the Crew Chief Cluster, with smaller percentages working in all other jobs and clusters. The average number of tasks performed by the active duty 2A551J group is 182. This group performs the largest number of tasks for the active duty 5-skill level groups. Table 24 lists representative tasks performed by these airmen.

**DAFSC 2A551K.** DAFSCs 2A531E and 2A531F merge at the 5-skill level to form DAFSC 2A551K. This group of airmen is responsible for the B-1, B-2, and B-52 aircraft. The 264 airmen in the DAFSC 2A551K represent 7 percent of all 5-skill level and 13 percent of all active duty 5-skill level airmen.

The members in this group average 9 years and 3 months TAFMS and 93 percent hold the E-4 or E-5 paygrade. Sixty-six percent of this group work in the Crew Chief Cluster, with much smaller percentages working several other jobs such as Aero Repair Cluster (6 percent) and Equipment Management Cluster (5 percent) (see Table 7). The total active duty 2A551K perform an average of 148 tasks. Table 25 lists representative tasks performed by these airmen.

**DAFSC 2A551L.** The DAFSCs 2A531G and 2A531H combine at the 5-skill level to form the DAFSC 2A551L. This group is responsible for the following aircraft: C-135, C-18, E-3, E-4, KC-10, VC-25, and VC-137. The 643 airmen in the DAFSC 2A551L represent 18 percent of all 5-skill level and 31 percent of all active duty 5-skill level airmen.

The members in this group average 8 years and 1 month TAFMS, and 95 percent are in either the E-4 or E-5 paygrade. Sixty percent of airmen holding the L-shred work in the Crew Chief Cluster, with the additional 40 percent distributed throughout the other jobs and clusters. The average number of tasks performed by all L-shred personnel is 163 tasks. Table 26 lists representative tasks performed by these airmen. Tasks that best differentiate between the 3-skill level shreds and their respective 5-skill level are listed in Tables 27-35.

**Skill-Level Descriptions**  
**(Active Duty - DAFSC 2A571)**

**DAFSC 2A571.** The 1,527 airmen in the 7-skill level group represent 22 percent of the total survey sample, 35 percent of the active duty sample; and 60 percent of the total 7-skill level sample. Their average TAFMS is 11 years and the predominate paygrades are E-6 and E-7.

TABLE 24

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A551J PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=1,180)
E297	Perform foreign object damage (FOD) walks	72
E179	Connect or disconnect external electrical aircraft power	71
O932	Clear Red-Diagonal conditions	66
O931	Clear Red-Dash conditions	65
E264	Operate aircraft interphones	63
E304	Perform wing or tail walker procedures during aircraft towing	63
E320	Remove or install aircraft hardware, such as screws or fasteners	62
E261	Open or close engine cowlings, panels, or doors	62
E389	Service aircraft tires	61
E307	Position fire extinguishers	60
E257	Lubricate aircraft components	60
E194	Inspect aircraft shock struts	60
E250	Jack or level aircraft	60
E188	Inspect access doors, hatches, or panels	59
E294	Perform aircraft fueling or defueling	58
E295	Perform brake rider procedures during aircraft towing	58
E251	Launch or recover aircraft	57
E195	Inspect aircraft windows or windshields	57
O928	Access core automated maintenance system (CAMS) or G0-81 menus and data screens	56
E190	Inspect aircraft for corrosion	56
E204	Inspect cargo door or ramp mechanical components	56
E175	Clean aircraft windshields	56
F425	Inspect aircraft wheel and tire assemblies	55
E265	Operate aircraft radios	55
E386	Service aircraft hydraulic systems	55
E176	Clean interior of aircraft	54
E227	Inspect portable fire extinguishers	54
E387	Service aircraft LOX systems	54
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	53
O946	Review aircraft flight or maintenance records, such as AF Forms 781 series	49
A27	Direct aircraft refueling or defueling operations	49
M890	Perform preuse inspections of nonpowered AGE	49
M891	Perform preuse inspections of powered AGE	48
D145	Inventory equipment, tools, parts, or supplies	47
B86	Conduct OJT	47
D140	Evaluate serviceability of equipment, tools, parts, or supplies	42
A76	Supervise military personnel	42
B101	Maintain training records or files	42
A14	Counsel subordinates concerning personal matters	42
A6	Conduct safety inspections of equipment or facilities	41
O933	Clear Red-X conditions	39
A17	Determine or establish work assignments or priorities	38
O941	Initiate or annotate aircraft flight or maintenance records, such as AF Forms 781 series	37
B88	Counsel trainees on training progress	37

TABLE 25

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A551K PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=264)
E179 Connect or disconnect external electrical aircraft power	80
E297 Perform foreign object damage (FOD) walks	80
E264 Operate aircraft interphones	75
E261 Open or close engine cowlings, panels, or doors	73
E188 Inspect access doors, hatches, or panels	72
O931 Clear Red-Dash conditions	72
E194 Inspect aircraft shock struts	72
E257 Lubricate aircraft components	72
O932 Clear Red-Diagonal conditions	71
E304 Perform wing or tail walker procedures during aircraft towing	71
O928 Access core automated maintenance system (CAMS) or G0-81 menus and data screens	70
E295 Perform brake rider procedures during aircraft towing	70
E307 Position fire extinguishers	68
E320 Remove or install aircraft hardware, such as screws or fasteners	67
E251 Launch or recover aircraft	67
E195 Inspect aircraft windows or windshields	67
E389 Service aircraft tires	66
M891 Perform preuse inspections of powered AGE	66
E386 Service aircraft hydraulic systems	66
M890 Perform preuse inspections of nonpowered AGE	66
E250 Jack or level aircraft	66
E394 Service engines with oil	65
E175 Clean aircraft windshields	65
F425 Inspect aircraft wheel and tire assemblies	65
E294 Perform aircraft fueling or defueling	64
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	64
E190 Inspect aircraft for corrosion	64
E230 Inspect radomes	64
K789 Inspect external aircraft lights	64
E262 Open or close radomes	64
E176 Clean interior of aircraft	63
E161 Adjust engine cowlings, panel, or door latches	63
K805 Remove or install aircraft batteries	63
E321 Remove or install aircraft protective coverings, such as intake plugs	62
E227 Inspect portable fire extinguishers	62
L835 Inspect engine cowlings, panel, or door latches	62
J759 Inspect aircraft for fuel leaks	61
E170 Bleed brake systems	61
I738 Service aircraft accumulators	60
F451 Inspect landing gear struts	60
L829 Inspect engine air inlet or exhaust areas	58
E245 Inspect weapons bay doors	58
J778 Transfer fuel within aircraft	58
E392 Service engine CSDs or IDGs	58
O946 Review aircraft flight or maintenance records, such as AF Forms 781 series	56

TABLE 26

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A551L PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=643)	
E179	Connect or disconnect external electrical aircraft power	74
E297	Perform foreign object damage (FOD) walks	74
O932	Clear Red-Diagonal conditions	72
O931	Clear Red-Dash conditions	70
E264	Operate aircraft interphones	70
E261	Open or close engine cowlings, panels, or doors	69
E304	Perform wing or tail walker procedures during aircraft towing	68
O928	Access core automated maintenance system (CAMS) or G0-81 menus and data screens	66
E267	Operate landing gear or wheel well doors	66
E294	Perform aircraft fueling or defueling	65
E389	Service aircraft tires	65
E307	Position fire extinguishers	65
E295	Perform brake rider procedures during aircraft towing	65
E194	Inspect aircraft shock struts	65
E257	Lubricate aircraft components	65
E251	Launch or recover aircraft	64
E188	Inspect access doors, hatches, or panels	63
E175	Clean aircraft windshields	63
E394	Service engines with oil	62
E195	Inspect aircraft windows or windshields	62
E190	Inspect aircraft for corrosion	62
F425	Inspect aircraft wheel and tire assemblies	61
E176	Clean interior of aircraft	61
E320	Remove or install aircraft hardware, such as screws or fasteners	61
M891	Perform preuse inspections of powered AGE	61
M890	Perform preuse inspections of nonpowered AGE	61
E386	Service aircraft hydraulic systems	61
E250	Jack or level aircraft	61
E227	Inspect portable fire extinguishers	59
K789	Inspect external aircraft lights	59
K805	Remove or install aircraft batteries	59
E303	Perform tow vehicle operator procedures during aircraft towing	58
J759	Inspect aircraft for fuel leaks	58
J778	Transfer fuel within aircraft	58
F451	Inspect landing gear struts	58
E265	Operate aircraft radios	58
J756	Drain aircraft fuel tanks	57
I738	Service aircraft accumulators	56
O946	Review aircraft flight or maintenance records, such as AF Forms 781 series	55
A27	Direct aircraft refueling or defueling operations	55
E321	Remove or install aircraft protective coverings, such as intake plugs	55
L835	Inspect engine cowling, panel, or door latches	55
E230	Inspect radomes	55
E201	Inspect blow-out doors	54
F471	Remove or install aircraft brake assemblies or brake system components	54
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	54

TABLE 27

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A531X AND 2A551X PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531X (N=745)	DAFSC 2A551X (N=2087)	DIFFERENCE
A76 Supervise military personnel	3	41	-38
E302 Perform tow supervisor procedures during aircraft towing	4	42	-38
B86 Conduct OJT	9	46	-37
O933 Clear Red-X conditions	4	40	-36
A14 Counsel subordinates concerning personal matters	5	41	-36
B88 Counsel trainees on training progress	2	34	-32
A27 Direct aircraft refueling or defueling operations	19	51	-32
A10 Conduct supervisory performance feedback sessions	2	35	-32
A17 Determine or establish work assignments or priorities	7	36	-29
B97 Evaluate progress of trainees	3	30	-28
A60 Inspect personnel for compliance with military standards	4	32	-28
L854 Operationally check engines	5	33	-28
A78 Write performance reports or supervisory appraisals	2	29	-27
E303 Perform tow vehicle operator procedures during aircraft towing	26	51	-26
A38 Establish performance standards for subordinates	3	28	-25
A51 Evaluate personnel for compliance with performance standards or technical orders	3	26	-24
B96 Evaluate personnel to determine training needs	2	24	-22
B101 Maintain training records or files	16	38	-22
A13 Coordinate maintenance or supply problems with appropriate agencies	12	34	-22
A79 Write recommendations for awards or decorations	1	23	-21

TABLE 28

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A531A AND 2A551J PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531A (N=103)	DAFSC 2A551J (N=1,180)	DIFFERENCE
E392 Service engine CSDs or IDGs	59	31	28
E263 Open or close tail cones	50	24	25
E205 Inspect cargo loading struts or tail stands	50	27	23
E375 Remove or install tail cones	43	21	22
E201 Inspect blow-out doors	54	33	22
E390 Service cargo loading struts	43	22	21
F493 Remove or install landing gear wheel spin brake components, such as snubber brakes	33	14	19
F454 Inspect landing gear wheel spin brake pads, such as snubber brakes	44	25	19
G542 Inspect smoke detection systems	37	19	18
B86 Conduct OJT	6	47	-41
A76 Supervise military personnel	2	42	-40
A27 Direct aircraft refueling or defueling operations	10	49	-39
A14 Counsel subordinates concerning personal matters	5	42	-37
O933 Clear Red-X conditions	4	39	-35
A10 Conduct supervisory performance feedback sessions	1	36	-35
E302 Perform tow supervisor procedures during aircraft towing	3	36	-34
B88 Counsel trainees on training progress	3	37	-34
E303 Perform tow vehicle operator procedures during aircraft towing	16	49	-34
A17 Determine or establish work assignments or priorities	7	38	-31
B97 Evaluate progress of trainees	3	33	-30
F455 Inspect main landing gear jack screws	13	40	-28
A60 Inspect personnel for compliance with military standards	6	33	-28
F457 Lubricate main landing gear jack screws	11	38	-28
A78 Write performance reports or supervisory appraisals	2	30	-28
A38 Establish performance standards for subordinates	2	30	-28
L854 Operationally check engines	2	30	-28
G549 Operationally check ATMs	3	29	-26

TABLE 29

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A531B AND 2A551J PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531B (N=140)	DAFSC 2A551J (N=1,180)	DIFFERENCE
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	64	29	35
E260 Moor aircraft	72	39	33
E271 Operationally check air deflector doors	59	27	32
L850 Inspect propellers, brush-blocks, or related components	44	16	28
E239 Inspect static line retrievers	52	27	25
K813 Service aircraft battery sump jars	54	31	23
E211 Inspect crew hatch jetison system components	44	21	23
F457 Lubricate main landing gear jack screws	61	38	23
L881 Service propeller systems	39	16	23
E352 Remove or install liferafts	66	43	23
E170 Bleed brake systems	71	49	22
E176 Clean interior of aircraft	75	54	21
E264 Operate aircraft interphones	84	63	21
F455 Inspect main landing gear jack screws	61	40	20
E190 Inspect aircraft for corrosion	76	56	20
E291 Operationally check troop doors	66	46	20
E261 Open or close engine cowlings, panels, or doors	81	62	20
E294 Perform aircraft fueling or defueling	78	58	20
E290 Operationally check static line retrievers	41	22	19
L831 Inspect engine bays	34	15	19
E243 Inspect troop door systems	63	44	19
E219 Inspect liferaft release or stowage systems	59	41	19
A76 Supervise military personnel	6	42	-37
A14 Counsel subordinates concerning personal matters	9	42	-34
B86 Conduct OJT	13	47	-34
A10 Conduct supervisory performance feedback sessions	4	36	-33
O933 Clear Red-X conditions	6	39	-33
B88 Counsel trainees on training progress	4	37	-32
A60 Inspect personnel for compliance with military standards	4	33	-30
A17 Determine or establish work assignments or priorities	8	38	-30
E392 Service engine CSDs or IDGs	3	31	-29

TABLE 30

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A531C AND 2A551J PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531C (N=135)	DAFSC 2A551J (N=1,180)	DIFFERENCE
F448 Inspect landing gear roll pin lock tabs	67	19	48
F441 Inspect landing gear gudgeon pin lock tabs	63	17	46
F444 Inspect landing gear kneeling systems	53	14	38
I741 Service escape slide bottles	49	11	38
G532 Inspect escape slides	47	12	36
F456 Inspect nosegear folding bulkhead latching mechanisms or linkages	53	20	34
E207 Inspect cargo visor mechanical components	52	18	34
F428 Inspect bogie trim actuators or roll positioners	52	20	32
E400 Take engine oil samples for analysis, such as joint oil analysis program (JOAP)	59	27	32
G576 Service ATMs	56	27	29
E392 Service engine CSDs or IDGs	60	31	29
G525 Inspect descent reels or emergency ground egress systems, such as ropes	50	25	26
F432 Inspect landing gear bogie pitch systems or axle beam positioners	50	24	25
F457 Lubricate main landing gear jack screws	63	38	25
A14 Counsel subordinates concerning personal matters	1	42	-41
B86 Conduct OJT	7	47	-40
O933 Clear Red-X conditions	1	39	-38
E302 Perform tow supervisor procedures during aircraft towing	1	36	-35
A27 Direct aircraft refueling or defueling operations	13	49	-35
E303 Perform tow vehicle operator procedures during aircraft towing	16	49	-34
B88 Counsel trainees on training progress	2	37	-34
A10 Conduct supervisory performance feedback sessions	3	36	-33
A60 Inspect personnel for compliance with military standards	2	33	-31
B97 Evaluate progress of trainees	2	33	-30
E260 Moor aircraft	10	39	-29
K813 Service aircraft battery sump jars	1	31	-29
A17 Determine or establish work assignments or priorities	10	38	-28

TABLE 31

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A531D AND 2A551J PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531D (N=80)	DAFSC 2A551J (N=1,180)	DIFFERENCE
E357 Remove or install OBIGGS components	44	1	42
E285 Operationally check OBIGGSs	38	2	36
E222 Inspect on-board inert gaseous generation systems (OBIGGSs)	35	3	32
E397 Service OBIGGSs	31	1	30
E408 Troubleshoot OBIGGSs	28	1	26
E214 Inspect engine pylons or aprons	60	36	24
E260 Moor aircraft	63	39	24
E171 Bleed hydraulic systems	53	29	24
E187 Drain or replace aircraft engine oil	58	35	23
F425 Inspect aircraft wheel and tire assemblies	78	55	22
E232 Inspect ram air turbine (RAT) doors	38	16	22
J763 Inspect fuel vent boxes	34	12	22
G558 Operationally check smoke detection systems	43	21	22
E303 Perform tow vehicle operator procedures during aircraft	6	49	-43
A14 Counsel subordinates concerning personal matters	3	42	-40
A76 Supervise military personnel	3	42	-40
B86 Conduct OJT	6	47	-40
A10 Conduct supervisory performance feedback sessions	*	36	-36
E302 Perform tow supervisor procedures during aircraft towing	1	36	-35
B88 Counsel trainees on training progress	1	37	-35
A17 Determine or establish work assignments or priorities	4	38	-34
A27 Direct aircraft refueling or defueling operations	16	49	-33
F455 Inspect main landing gear jack screws	8	40	-33
A60 Inspect personnel for compliance with military standards	1	33	-32
B97 Evaluate progress of trainees	1	33	-31
O933 Clear Red-X conditions	9	39	-30

TABLE 32

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A531E AND 2A551K PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 32531E (N=40)	DAFSC 2A551K (N=264)	DIFFERENCE
E220 Inspect magnetic chip detectors	78	38	40
E388 Service aircraft nitrogen systems	73	36	37
E180 Connect or disconnect hydraulic test stands to or from aircraft	80	44	36
E396 Service gaseous oxygen systems	68	32	35
E189 Inspect accessory drive gearboxes (ADGs)	75	40	35
E224 Inspect overwing fairings	78	44	34
E299 Perform hardness critical procedure (HCP) ohm checks	63	29	33
E296 Perform chip detector ohm tests on aircraft components	68	36	32
E359 Remove or install overwing fairing seals	60	30	30
E266 Operate centralized aircraft support systems (CASSs)	63	35	28
K804 Perform CITS ground readiness tests (GRTs)	50	25	25
F453 Inspect landing gear up-lock mechanisms	53	28	25
E267 Operate landing gear or wheel well doors	65	40	25
E286 Operationally check overwing fairing seals	48	24	23
E391 Service crew or passenger comfort facilities, such as latrines or galleys	65	43	22
E334 Remove or install CITS magnetic tapes	48	25	22
E183 Dispose of hazardous materials	68	46	22
O933 Clear Red-X conditions	*	38	-38
A27 Direct aircraft refueling or defueling operations	15	53	-38
E302 Perform tow supervisor procedures during aircraft towing	13	49	-37
A76 Supervise military personnel	*	33	-33
A14 Counsel subordinates concerning personal matters	*	33	-33
E186 Drain liquid oxygen (LOX) systems	3	32	-30
H625 Inspect spoiler systems	10	40	-30
B86 Conduct OJT	8	38	-30
G565 Remove or install drag chutes	*	30	-30
A17 Determine or establish work assignments or priorities	3	31	-28
L859 Remove or install engine cowlings, panel, or door latches	25	51	-26
I700 Inspect hydraulic system reservoirs	13	39	-26

TABLE 33

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A531F AND 2A551K PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531F (N=36)	DAFSC 2A551K (N=264)	DIFFERENCE
G565 Remove or install drag chutes	81	30	50
G580 Service portable oxygen bottles	64	19	45
L828 Inspect cartridge-type starter breech caps	67	23	44
E186 Drain liquid oxygen (LOX) systems	75	32	43
J780 Verify aircraft fuel tank quantity with dipstick or sight gauge	72	40	40
E387 Service aircraft LOX systems	72	34	38
E191 Inspect aircraft fuel system surge suppressors or surge tanks	64	26	38
E192 Inspect aircraft LOX systems	58	23	36
E385 Service aircraft fuel system surge suppressors or surge tanks	50	15	35
L821 Clean cartridge-type starter breech caps	61	27	35
L868 Remove or install engine starter cartridges	58	24	34
L866 Remove or install engine nosedomes	56	22	33
E302 Perform tow supervisor procedures during aircraft towing	6	49	-44
A27 Direct aircraft refueling or defueling operations	14	53	-39
E220 Inspect magnetic chip detectors	*	38	-38
E269 Operate weapons bay doors	17	54	-38
E296 Perform chip detector ohm tests on aircraft components	*	36	-36
E267 Operate landing gear or wheel well doors	6	40	-35
E266 Operate centralized aircraft support systems (CASSs)	*	35	-35
E224 Inspect overwing fairings	11	44	-33
O933 Clear Red-X conditions	6	38	-32
A17 Determine or establish work assignments or priorities	*	31	-31
A76 Supervise military personnel	3	33	-30
E388 Service aircraft nitrogen systems	6	36	-30

TABLE 34

TASKS WHICH BEST DIFFERENTIATE BETWEEN 2A531G AND 2A551L PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531G (N=101)	DAFSC 2A551L (N=643)	DIFFERENCE
E175 Clean aircraft windshields	86	63	23
E176 Clean interior of aircraft	82	61	21
E261 Open or close engine cowlings, panels, or doors	90	69	21
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	76	56	20
F447 Inspect landing gear or tip gear centering cylinders	46	25	20
E302 Perform tow supervisor procedures during aircraft towing	3	50	-47
A14 Counsel subordinates concerning personal matters	4	44	-40
O933 Clear Red-X conditions	2	42	-40
B86 Conduct OJT	9	47	-38
A76 Supervise military personnel	2	40	-38
A27 Direct aircraft refueling or defueling operations	22	55	-33
B88 Counsel trainees on training progress	1	33	-32
A10 Conduct supervisory performance feedback sessions	3	35	-32
L854 Operationally check engines	13	40	-28
B101 Maintain training records or files	10	38	-28
A38 Establish performance standards for subordinates	1	28	-27
A78 Write performance reports or supervisory appraisals	2	29	-27
A17 Determine or establish work assignments or priorities	8	34	-26
B97 Evaluate progress of trainees	3	29	-26
A60 Inspect personnel for compliance with military standards	9	33	-24
A79 Write recommendations for awards or decorations	2	26	-24
A51 Evaluate personnel for compliance with performance standards or technical orders	3	26	-23
A7 Conduct self-inspections or self-assessments	14	36	-22
B96 Evaluate personnel to determine training needs	2	23	-21

TABLE 35

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A531H AND 2A551L PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531H (N=110)	DAFSC 2A551L (N=643)	DIFFERENCE
E214 Inspect engine pylons or aprons	66	20	46
G542 Inspect smoke detection systems	47	8	40
J763 Inspect fuel vent boxes	59	21	38
E400 Take engine oil samples for analysis, such as joint oil analysis program (JOAP)	72	37	35
G558 Operationally check smoke detection systems	35	7	28
E392 Service engine CSDs or IDGs	79	51	28
J758 Inspect air refueling receiver systems	46	19	28
I697 Inspect hydraulic system filters	45	19	27
J755 Clean air refueling receiver system components	41	15	26
G579 Service hot, cold, or potable water systems	37	12	26
E388 Service aircraft nitrogen systems	53	28	25
M894 Service gaseous oxygen servicing carts	27	4	24
E396 Service gaseous oxygen systems	74	52	22
M898 Service oil servicing carts	47	26	22
E302 Perform tow supervisor procedures during aircraft towing	3	50	-48
A76 Supervise military personnel	2	40	-39
L854 Operationally check engines	4	40	-37
O933 Clear Red-X conditions	5	42	-37
B86 Conduct OJT	13	47	-35
A14 Counsel subordinates concerning personal matters	10	44	-34
F461 Operationally check landing gear antiskid systems	6	38	-32
E162 Adjust escape hatches for fit and pressurization	9	41	-32
A10 Conduct supervisory performance feedback sessions	4	35	-32
H596 Adjust cove lip door components	1	33	-32
B88 Counsel trainees on training progress	3	33	-31
I729 Remove or install hydraulic system accumulators	6	36	-30
F474 Remove or install landing gear antiskid system components, such as wheel-speed sensors	5	35	-30
E337 Remove or install crew doors	5	34	-29
F473 Remove or install brake equalizing or compensating rods	1	30	-29
A60 Inspect personnel for compliance with military standards	5	33	-28

Unlike their junior counterparts at the 3- and 5-skill levels, higher percentages of these personnel are working in the Supervisory Cluster (23 percent), with only 27 percent in the Crew Chief Cluster (see Table 7). Although a substantial amount of their relative job time is devoted to technical duties, 7-skill level personnel are also involved in the upper-level managerial, supervisory, and training duties (see Table 11). Seventy-seven percent of these airmen hold a supervisory position. The total 7-skill level group performs an average of 132 tasks. Representative tasks performed by these airmen are listed on Table 36.

The managerial role that 7-skill level personnel perform is the main distinguishing feature between them and the 5-skill level. Tables 37-40 display those tasks that best differentiate between the 5-skill shreds and the 7-skill level DAFSC.

#### Skill-Level Descriptions (Active Duty - DAFSC 2A590)

**DAFSC 2A590.** The 34 airmen in the 9-skill level group represent less than 1 percent of the total survey and active duty sample. Their average TAFMS is 18 years and 2 months, and the predominate paygrades are E-7 and E-8.

Unlike their counterparts in the lower skill levels, 9-skill level members primarily function as supervisors for the career field as 85 percent of this group hold a direct supervisory position. These experienced airmen primarily work in 3 areas: Supervisory Cluster (41 percent), Flight Line Expediter Job (24 percent), and Quality Assurance Evaluator Job (6 percent). Eighty-nine percent of their job time is spent on supervisory duties (see Table 11, Duties A through D). Representative tasks performed by these 9-skill level airmen are listed on Table 41. These tasks are distinctly supervisory and managerial in nature. To see the tasks that best differentiate between the 7- and 9-skill level DAFSCs, see Table 42.

#### Summary

In summary, a clear pattern of progression is seen in the active duty Aerospace Maintenance specialty. Members at the 3-skill level tend to work primarily on the technical duties, such as general airframe and aircraft maintenance. They also spend a large portion of their relative job time maintaining the various aircraft systems, such as: landing gears, utility, pneudraulic, fuel, and electrical systems. At the 5-skill level, a moderate shift towards supervisory functions occurs, with members still spending more than 65 percent of their relative job time performing technical functions. Personnel at the 7-skill level primarily perform managerial and supervisory work, although a small percentage of their relative job time is still spent on technical duties. Personnel at the 9-skill level primarily perform supervisory functions.

TABLE 36

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A571 PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=1,527)
A14 Counsel subordinates concerning personal matters	72
A76 Supervise military personnel	71
A17 Determine or establish work assignments or priorities	64
A10 Conduct supervisory performance feedback sessions	64
A60 Inspect personnel for compliance with military standards	63
A78 Write performance reports or supervisory appraisals	60
O928 Access core automated maintenance system (CAMS) or G0-81 menus and data screens	58
A79 Write recommendations for awards or decorations	57
E297 Perform foreign object damage (FOD) walks	57
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	56
O933 Clear Red-X conditions	56
A51 Evaluate personnel for compliance with performance standards or technical orders	53
O946 Review aircraft flight or maintenance records, such as AF Forms 781 series	52
A6 Conduct safety inspections of equipment or facilities	52
A7 Conduct self-inspections or self-assessments	52
O931 Clear Red-Dash conditions	52
A13 Coordinate maintenance or supply problems with appropriate agencies	51
B101 Maintain training records or files	51
O932 Clear Red-Diagonal conditions	50
A38 Establish performance standards for subordinates	49
A61 Interpret policies, directives, or procedures for subordinates	48
B86 Conduct OJT	46
B88 Counsel trainees on training progress	46
A69 Plan or schedule work assignments or priorities	45
A15 Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	44
A2 Assign personnel to work areas or duty positions, other than mobility positions	44
B97 Evaluate progress of trainees	44
A21 Develop or establish work schedules	43
A42 Evaluate in-process maintenance	42
A27 Direct aircraft refueling or defueling operations	42
A5 Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	41
A9 Conduct supervisory orientations for newly assigned personnel	41
B96 Evaluate personnel to determine training needs	41
A52 Evaluate personnel for promotion, demotion, reclassification, or special awards	40
A20 Develop or establish work methods or procedures	39

TABLE 37

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A551X AND 2A571 PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A551X (N=2,087)	DAFSC 2A571 (N=1527)	DIFFERENCE
E389 Service aircraft tires	63	33	30
E175 Clean aircraft windshields	59	30	30
E176 Clean interior of aircraft	57	28	29
E295 Perform brake rider procedures during aircraft towing	62	33	29
E257 Lubricate aircraft components	63	36	28
E179 Connect or disconnect external electrical aircraft power	73	46	27
E320 Remove or install aircraft hardware, such as screws or fasteners	62	35	27
E170 Bleed brake systems	53	26	26
E322 Remove or install aircraft windows or windshields	51	24	26
E264 Operate aircraft interphones	67	41	26
E386 Service aircraft hydraulic systems	58	33	26
E294 Perform aircraft fueling or defueling	61	36	25
E304 Perform wing or tail walker procedures during aircraft towing	66	41	25
K805 Remove or install aircraft batteries	54	30	24
E262 Open or close radomes	52	28	24
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	23	56	-34
A79 Write recommendations for awards or decorations	23	57	-34
A76 Supervise military personnel	41	71	-31
A78 Write performance reports or supervisory appraisals	29	60	-31
A14 Counsel subordinates concerning personal matters	41	72	-30
A60 Inspect personnel for compliance with military standards	32	63	-30

TABLE 38

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A551J AND 2A571 PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A551J (N=1,180)	DAFSC 2A571 (N=1,527)	DIFFERENCE
E206 Inspect cargo ramp seals	51	17	35
E275 Operationally check cargo doors or ramps	54	20	34
E204 Inspect cargo door or ramp mechanical components	56	23	34
E387 Service aircraft LOX systems	54	21	33
E318 Remove or install aircraft door negator springs	43	11	32
E291 Operationally check troop doors	46	14	31
E352 Remove or install liferafts	43	13	30
E243 Inspect troop door systems	44	15	29
E389 Service aircraft tires	61	33	28
E260 Moor aircraft	39	11	28
F457 Lubricate main landing gear jack screws	38	11	27
F455 Inspect main landing gear jack screws	40	14	27
E320 Remove or install aircraft hardware, such as screws or fasteners	62	35	27
E175 Clean aircraft windshields	56	30	26
E176 Clean interior of aircraft	54	28	25
E179 Connect or disconnect external electrical aircraft power	71	46	25
E377 Remove or install troop door components	35	10	25
E257 Lubricate aircraft components	60	36	25
A79 Write recommendations for awards or decorations	22	57	-35
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	23	56	-33
A14 Counsel subordinates concerning personal matters	42	72	-30
A78 Write performance reports or supervisory appraisals	30	60	-30
A76 Supervise military personnel	42	71	-29
A60 Inspect personnel for compliance with military standards	33	63	-29
A10 Conduct supervisory performance feedback sessions	36	64	-28
A5 Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	13	41	-28
A61 Interpret policies, directives, or procedures for subordinates	21	48	-27

TABLE 39

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A51K AND A2571 PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A51K (N=264)	DAFSC 2A571 (N=1,527)	DIFFERENCE
E245 Inspect weapons bay doors	58	6	52
E269 Operate weapons bay doors	54	4	50
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	64	19	45
E268 Operate seat adjustment actuators	55	16	39
I684 Drain hydraulic systems	53	15	38
E295 Perform brake rider procedures during aircraft towing	70	33	37
E257 Lubricate aircraft components	72	36	36
E262 Open or close radomes	64	28	36
E161 Adjust engine cowl, panel, or door latches	63	28	35
E175 Clean aircraft windshields	65	30	35
E170 Bleed brake systems	61	26	35
E176 Clean interior of aircraft	63	28	35
E321 Remove or install aircraft protective coverings, such as intake plugs	62	27	35
E264 Operate aircraft interphones	75	41	35
E392 Service engine CSDs or IDGs	58	24	35
A78 Write performance reports or supervisory appraisals	20	60	-40
A79 Write recommendations for awards or decorations	17	57	-40
A14 Counsel subordinates concerning personal matters	33	72	-39
A60 Inspect personnel for compliance with military standards	24	63	-39
A10 Conduct supervisory performance feedback sessions	27	64	-38
A76 Supervise military personnel	33	71	-38
A61 Interpret policies, directives, or procedures for subordinates	11	48	-37
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	20	56	-36
A15 Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	9	44	-35

TABLE 40

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A551L AND 2A571 PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A551L (N=643)	DAFSC 2A571 (N=1,527)	DIFFERENCE
E391 Service crew or passenger comfort facilities, such as latrines or galleys	53	15	37
E396 Service gaseous oxygen systems	52	14	37
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	56	19	37
E267 Operate landing gear or wheel well doors	66	29	37
J756 Drain aircraft fuel tanks	57	24	34
E175 Clean aircraft windshields	63	30	34
E389 Service aircraft tires	65	33	33
E176 Clean interior of aircraft	61	28	33
E295 Perform brake rider procedures during aircraft towing	65	33	32
E205 Inspect cargo loading struts or tail stands	50	18	31
A64 Participate in general meetings, such as staff meetings,	23	56	-33
A17 Determine or establish work assignments or priorities	34	64	-31
A76 Supervise military personnel	40	71	-31
A60 Inspect personnel for compliance with military standards	33	63	-30
A78 Write performance reports or supervisory appraisals	29	60	-30
A79 Write recommendations for awards or decorations	26	57	-30
A10 Conduct supervisory performance feedback sessions	35	64	-29
A15 Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	16	44	-29
A5 Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	12	41	-29

TABLE 41

## REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A590 PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=34)
A17 Determine or establish work assignments or priorities	88
A14 Counsel subordinates concerning personal matters	88
A76 Supervise military personnel	85
A13 Coordinate maintenance or supply problems with appropriate agencies	79
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	74
A7 Conduct self-inspections or self-assessments	74
A5 Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	71
A60 Inspect personnel for compliance with military standards	71
A10 Conduct supervisory performance feedback sessions	68
A12 Coordinate cannibalization of parts with appropriate agencies	65
A78 Write performance reports or supervisory appraisals	65
O946 Review aircraft flight or maintenance records, such as AF Forms 781 series	65
A42 Evaluate in-process maintenance	65
A21 Develop or establish work schedules	62
A57 Indorse performance reports or supervisory appraisals	62
O933 Clear Red-X conditions	62
A62 Investigate accidents or incidents	62
A15 Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	59
A61 Interpret policies, directives, or procedures for subordinates	59
A52 Evaluate personnel for promotion, demotion, reclassification, or special awards	59
A2 Assign personnel to work areas or duty positions, other than mobility positions	56
A79 Write recommendations for awards or decorations	56
A51 Evaluate personnel for compliance with performance standards or technical orders	56
O928 Access core automated maintenance system (CAMS) or G0-81 menus and data screens	53
A69 Plan or schedule work assignments or priorities	53
A18 Develop inputs to mobility, contingency, disaster preparedness, or unit emergency or alert plans	53
O931 Clear Red-Dash conditions	53
A56 Evaluate workload requirements	50
A48 Evaluate logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	50
A6 Conduct safety inspections of equipment or facilities	50
A11 Coordinate aircraft launch and recovery times with aircrews or appropriate agencies	47
O945 Retrieve CAMS or G0-81 listings or reports	47

TABLE 42

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A571 AND 2A590 PERSONNEL

TASKS	DAFSC 2A571 (N=1,527)	DAFSC 2A590 (N=34)	DIFFERENCE
E179 Connect or disconnect external electrical aircraft power	46	15	32
E295 Perform brake rider procedures during aircraft towing	33	3	30
E176 Clean interior of aircraft	28	*	28
B88 Counsel trainees on training progress	46	18	28
B101 Maintain training records or files	51	24	28
E161 Adjust engine cowlings, panel, or door latches	28	*	28
E389 Service aircraft tires	33	6	27
E257 Lubricate aircraft components	36	9	27
E386 Service aircraft hydraulic systems	33	6	27
F425 Inspect aircraft wheel and tire assemblies	38	12	27
E251 Launch or recover aircraft	35	9	26
J778 Transfer fuel within aircraft	31	6	25
E261 Open or close engine cowlings, panels, or doors	40	15	25
E195 Inspect aircraft windows or windshields	37	12	25
K799 Operationally check external aircraft lighting system components	28	3	25
E294 Perform aircraft fueling or defueling	36	12	25
E235 Inspect seats, seatbelts, inertial reels, or shoulder harnesses	33	9	24
E194 Inspect aircraft shock struts	39	15	24
J759 Inspect aircraft for fuel leaks	33	9	24
A62 Investigate accidents or incidents	22	62	-40
O935 Coordinate material deficiency reports (MDRs), quality deficiency reports (QDRs), or software deficiency reports (SDRs) with appropriate agencies	17	50	-33
A57 Indorse performance reports or supervisory appraisals	30	62	-32
A18 Develop inputs to mobility, contingency, disaster preparedness, or unit emergency or alert plans	23	53	-30
A5 Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	41	71	-29
A12 Coordinate cannibalization of parts with appropriate agencies	37	65	-28
A13 Coordinate maintenance or supply problems with appropriate agencies	51	79	-28
C131 Participate in TCTO meetings	19	44	-26

Skill-Level Descriptions  
(AFRC - DAFSC 2A531A/B/C)

The 50 AFRC airmen in the DAFSC 2A531X represent less than 1 percent of the total survey sample and 3 percent of the total AFRC sample. Forty-eight percent of these airmen report working primarily on the flight line with no other work area identified. The primary paygrade for this group is E-5.

These airmen work predominately in three clusters: Crew Chief (56 percent), Flight Line Maintenance (10 percent) and -21 AME Support (6 percent) (see Table 8). As expected, Crew Chief was the primary job title identified. The average number of tasks performed by all AFRC 3-skill level airmen is 150. The majority of their relative job time is spent in Duty E, Performing Airframe and Aircraft Maintenance (47 percent) and Duty F, Maintaining Landing Gear Systems (10 percent). These percentages are very similar to those of their active duty counterparts (see Tables 11 and 12). Representative tasks for all AFRC 3 skill-level aerospace maintenance personnel are displayed on Table 43. *Only shreds with more than five members will be reported in this section.*

**DAFSC 2A531A.** The 9 reservists in the DAFSC 2A531A represent less than 1 percent of the AFRC survey sample, but make up 18 percent of AFRC 3-skill level airmen. The 2A531A personnel are responsible for maintaining the C-9, C-20, C-21, C-22, C-141, T-39, and T-43 aircraft. The predominate paygrades for this group are E-5 (78 percent) and E-6 (11 percent).

In comparison to their active duty counterparts, reservists in the A-shred spend more relative job time on -21 AME systems and less time on general airframe and aircraft maintenance than active duty A-shred personnel (see Tables 10 and 12). The average number of tasks performed by the total AFRC A-shred group is 156 tasks, in comparison to the active duty A-shred counterpart who performs 132 tasks. Tasks performed by members of this group are displayed in Table 44.

**DAFSC 2A531B.** The 20 airmen in the DAFSC 2A531B represent less than 1 percent of the AFRC survey sample and 40 percent of AFRC 3-skill level airmen. This group is evenly divided into paygrades E-4 and E-5. The AFRC 2A531B personnel in this survey report they primarily maintain the WC-130.

Half of these airmen work in the Crew Chief Cluster. Like their active duty counterparts, they too spend the majority of their relative job time in Duty E, Performing General Airframe and Aircraft Maintenance (53 percent) and Duty F, Maintaining Landing Gear Systems (10 percent) (see Tables 11 and 12).

All the members in this group are assigned to CONUS. The average number of tasks performed by AFRC DAFSC 2A531B personnel is 142. This is a lower average number of tasks performed than their active duty counterparts who average 156 tasks. Tasks performed by members of this group are displayed in Table 45.

TABLE 43

## REPRESENTATIVE TASKS PERFORMED BY AFRC 2A531X PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=50)
E297 Perform foreign object damage (FOD) walks	94
E179 Connect or disconnect external electrical aircraft power	84
E261 Open or close engine cowlings, panels, or doors	80
E257 Lubricate aircraft components	80
E227 Inspect portable fire extinguishers	80
E304 Perform wing or tail walker procedures during aircraft towing	78
E194 Inspect aircraft shock struts	78
E176 Clean interior of aircraft	76
E307 Position fire extinguishers	76
E251 Launch or recover aircraft	76
F425 Inspect aircraft wheel and tire assemblies	74
E250 Jack or level aircraft	74
E320 Remove or install aircraft hardware, such as screws or fasteners	72
E264 Operate aircraft interphones	72
E389 Service aircraft tires	72
E175 Clean aircraft windshields	72
K792 Inspect internal aircraft lights, other than emergency lights	72
F451 Inspect landing gear struts	72
E190 Inspect aircraft for corrosion	70
E394 Service engines with oil	70
K789 Inspect external aircraft lights	70
E195 Inspect aircraft windows or windshields	70
K790 Inspect external power receptacles	68
M891 Perform preuse inspections of powered AGE	66
M890 Perform preuse inspections of nonpowered AGE	66
K785 Inspect aircraft batteries or aircraft battery components	66
E294 Perform aircraft fueling or defueling	64
E386 Service aircraft hydraulic systems	64
E188 Inspect access doors, hatches, or panels	62
E387 Service aircraft LOX systems	62
E204 Inspect cargo door or ramp mechanical components	62
L844 Inspect engine nacelles	62
L835 Inspect engine cowlings, panel, or door latches	62
F435 Inspect landing gear door mechanisms	60
K805 Remove or install aircraft batteries	60
K796 Operationally check aircraft batteries	58
E235 Inspect seats, seatbelts, inertial reels, or shoulder harnesses	58
E225 Inspect permanently installed aircraft fire extinguishers	56
J759 Inspect aircraft for fuel leaks	56
J766 Inspect single-point fuel receptacles	56
E218 Inspect ladder systems, such as entry, flight station, or troop compartment	56
J778 Transfer fuel within aircraft	56
F455 Inspect main landing gear jack screws	56

TABLE 44  
REPRESENTATIVE TASKS PERFORMED BY AFRC 2A531A PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=9)	
E297	Perform foreign object damage (FOD) walks	89
E250	Jack or level aircraft	89
E257	Lubricate aircraft components	89
E179	Connect or disconnect external electrical aircraft power	78
E203	Inspect cargo compartment pressure doors	78
E304	Perform wing or tail walker procedures during aircraft towing	78
E204	Inspect cargo door or ramp mechanical components	67
E320	Remove or install aircraft hardware, such as screws or fasteners	67
E176	Clean interior of aircraft	67
E227	Inspect portable fire extinguishers	67
E259	Maintain security of hazardous materials, such as oil, rags, or grease	67
E190	Inspect aircraft for corrosion	67
E307	Position fire extinguishers	67
E187	Drain or replace aircraft engine oil	67
E205	Inspect cargo loading struts or tail stands	67
E261	Open or close engine cowlings, panels, or doors	67
D145	Inventory equipment, tools, parts, or supplies	56
D146	Issue or log turn-ins of equipment, tools, parts, or supplies	56
N918	Perform repairs on cargo compartment seats or litters	56
N906	Maintain cargo loading winches	56
P962	Don or doff chemical warfare personal protective clothing	56
E206	Inspect cargo ramp seals	56
G580	Service portable oxygen bottles	56
E153	Adjust access door or hatch latching mechanisms or linkages	56
E218	Inspect ladder systems, such as entry, flight station, or troop compartment	56
K796	Operationally check aircraft batteries	56
E212	Inspect crew or passenger comfort facilities, such as latrines or galleys	56
E394	Service engines with oil	56
G518	Inspect aircraft emergency lighting systems	56
E369	Remove or install safety devices, such as seat pins or gear locks	56
K790	Inspect external power receptacles	56
E294	Perform aircraft fueling or defueling	56
J766	Inspect single-point fuel receptacles	56
E264	Operate aircraft interphones	56
F425	Inspect aircraft wheel and tire assemblies	56
K792	Inspect internal aircraft lights, other than emergency lights	56
N913	Perform accountability inspections of -21 AME on aircraft	44
N912	Perform -21 AME downloads or uploads	44
N926	Replace portable oxygen bottles	44
D147	Maintain benchstock parts or equipment levels	44
N904	Inspect aircraft emergency equipment, such as first-aid kits	44
N909	Operationally check cargo loading winches	44
D152	Store equipment, tools, parts, or supplies	44

TABLE 45  
REPRESENTATIVE TASKS PERFORMED BY AFRC 2A531B PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=20)
E297 Perform foreign object damage (FOD) walks	100
E307 Position fire extinguishers	90
E261 Open or close engine cowlings, panels, or doors	85
E179 Connect or disconnect external electrical aircraft power	85
E227 Inspect portable fire extinguishers	85
E257 Lubricate aircraft components	80
E194 Inspect aircraft shock struts	80
F425 Inspect aircraft wheel and tire assemblies	80
E251 Launch or recover aircraft	80
E175 Clean aircraft windshields	80
F451 Inspect landing gear struts	80
E250 Jack or level aircraft	80
K792 Inspect internal aircraft lights, other than emergency lights	80
E304 Perform wing or tail walker procedures during aircraft towing	75
E264 Operate aircraft interphones	75
E195 Inspect aircraft windows or windshields	75
E235 Inspect seats, seatbelts, inertial reels, or shoulder harnesses	75
K789 Inspect external aircraft lights	75
E389 Service aircraft tires	75
K786 Inspect aircraft battery vent systems	75
E314 Remove or install access doors, hatches, or panels	70
E320 Remove or install aircraft hardware, such as screws or fasteners	70
E176 Clean interior of aircraft	70
M891 Perform preuse inspections of powered AGE	70
E260 Moor aircraft	70
F455 Inspect main landing gear jack screws	70
E291 Operationally check troop doors	70
E387 Service aircraft LOX systems	70
K805 Remove or install aircraft batteries	70
E262 Open or close radomes	65
E188 Inspect access doors, hatches, or panels	65
E190 Inspect aircraft for corrosion	65
E193 Inspect aircraft mooring attachment points	65
E204 Inspect cargo door or ramp mechanical components	65
E206 Inspect cargo ramp seals	65
E229 Inspect pressure seals, such as crew door, ramp, or visor seals	65
K785 Inspect aircraft batteries or aircraft battery components	65
K790 Inspect external power receptacles	65
F457 Lubricate main landing gear jack screws	65
E230 Inspect radomes	65
E386 Service aircraft hydraulic systems	65
L835 Inspect engine cowling, panel, or door latches	65
E218 Inspect ladder systems, such as entry, flight station, or troop compartment	65

**DAFSC 2A531C.** The 16 airmen in the DAFSC 2A531C represent 1 percent of the AFRC duty sample and 32 percent of AFRC 3-skill level airmen. The AFRC 2A531C personnel report maintaining the C-5, EC-135, and C-141 aircraft.

The paygrades for these incumbents are E-5 (63 percent) and E-4 (37 percent). All the reservists in this group are stationed in CONUS. These individuals primarily work on the flightline or inspection dock, and are found in the Crew Chief Cluster. The average number of tasks performed by all AFRC C-shred airmen is approximately the same as their active duty counterparts (160 and 158, respectively). Typical tasks performed by members of this group are displayed on Table 46.

#### Skill-Level Descriptions (AFRC - DAFSC 2A551J/K/L)

**DAFSC 2A551X.** The 896 AFRC airmen holding the 5-skill level constitute 56 percent of the AFRC survey sample. Eighty-two percent of this large group are in the DAFSC 2A551J and 18 percent in the DAFSC 2A551L. Sixty-three percent of the 5-skill level AFRC personnel are E-5, while 25 percent hold the rank of E-6. Most of these 5-skill level members work in the Crew Chief Cluster (64 percent), with an additional 10 percent working in Aero Repair Cluster (see Table 8).

Forty-two percent of AFRC 5-skill level incumbents' relative job time is spent in Duty E, Performing General Airframe and Aircraft Maintenance, and 12 percent in Duty F, Maintaining Landing Gear Systems. Seven percent of their job time is spent in Duty H, Performing General Airframe and Aircraft Maintenance. In comparison to their active duty counterpart, AFRC personnel spend more job time on technical duties than do active duty personnel (see Table 12).

As expected, 5-skill level personnel spend more relative job time on supervisory duties than do 3-skill level personnel (see Table 12). Table 47 lists representative tasks performed by AFRC 5-skill level members (DAFSC 2A551J and 2A551L). Tasks that best differentiate AFRC 5-skill level personnel from their 3-skill level counterparts are listed in Table 48 (DAFSC 2A531X versus 2A551X, respectively).

**DAFSC 2A551J.** The 735 airmen in the AFRC 2A551J DAFSC represent 46 percent of the total AFRC sample and 82 percent of all AFRC 5-skill level airmen. The predominate paygrades are E-5 (65 percent) and E-6 (24 percent). They primarily are found in the Crew Chief Cluster (62 percent). Forty-two percent of their job time is spent in Duty E, Performing General Airframe and Aircraft Maintenance, and 12 percent in Duty F, Maintaining Landing Gear Systems (see Table 12). In comparison to their active duty counterpart, this reservist group reports a greater number of tasks performed; 219 versus 182. Table 49 lists representative tasks performed by these airmen.

TABLE 46

## REPRESENTATIVE TASKS PERFORMED BY AFRC 2A531C PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=16)
E297 Perform foreign object damage (FOD) walks	88
E194 Inspect aircraft shock struts	88
E190 Inspect aircraft for corrosion	88
E304 Perform wing or tail walker procedures during aircraft towing	81
M890 Perform preuse inspections of nonpowered AGE	81
E179 Connect or disconnect external electrical aircraft power	81
E394 Service engines with oil	81
E176 Clean interior of aircraft	81
F425 Inspect aircraft wheel and tire assemblies	81
E227 Inspect portable fire extinguishers	81
E320 Remove or install aircraft hardware, such as screws or fasteners	75
E261 Open or close engine cowlings, panels, or doors	75
E251 Launch or recover aircraft	75
E257 Lubricate aircraft components	75
E389 Service aircraft tires	75
F451 Inspect landing gear struts	75
F457 Lubricate main landing gear jack screws	75
K785 Inspect aircraft batteries or aircraft battery components	75
D145 Inventory equipment, tools, parts, or supplies	69
E387 Service aircraft LOX systems	69
E388 Service aircraft nitrogen systems	69
M891 Perform preuse inspections of powered AGE	69
E264 Operate aircraft interphones	69
E307 Position fire extinguishers	69
E235 Inspect seats, seatbelts, inertial reels, or shoulder harnesses	69
K792 Inspect internal aircraft lights, other than emergency lights	69
K796 Operationally check aircraft batteries	69
K789 Inspect external aircraft lights	69
E386 Service aircraft hydraulic systems	69
J778 Transfer fuel within aircraft	69
L835 Inspect engine cowlings, panel, or door latches	69
E188 Inspect access doors, hatches, or panels	69
E203 Inspect cargo compartment pressure doors	69
E195 Inspect aircraft windows or windshields	69
K790 Inspect external power receptacles	69
O932 Clear Red-Diagonal conditions	69
L844 Inspect engine nacelles	69
F427 Inspect antiskid system components, such as wheel-speed sensors	69
F426 Inspect aircraft wheel bearings	69
F455 Inspect main landing gear jack screws	69
F452 Inspect landing gear trucks, torque struts, or bogies	69
F435 Inspect landing gear door mechanisms	69
K805 Remove or install aircraft batteries	69
E294 Perform aircraft fueling or defueling	63
K799 Operationally check external aircraft lighting system components	63

TABLE 47

## REPRESENTATIVE TASKS PERFORMED BY AFRC 2A551X PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=896)	
E179	Connect or disconnect external electrical aircraft power	91
E297	Perform foreign object damage (FOD) walks	88
E264	Operate aircraft interphones	83
E304	Perform wing or tail walker procedures during aircraft towing	82
E389	Service aircraft tires	81
E320	Remove or install aircraft hardware, such as screws or fasteners	79
E257	Lubricate aircraft components	79
E261	Open or close engine cowlings, panels, or doors	79
E188	Inspect access doors, hatches, or panels	78
E194	Inspect aircraft shock struts	78
E251	Launch or recover aircraft	77
E294	Perform aircraft fueling or defueling	77
E190	Inspect aircraft for corrosion	77
F425	Inspect aircraft wheel and tire assemblies	77
E307	Position fire extinguishers	77
E250	Jack or level aircraft	77
F451	Inspect landing gear struts	74
E175	Clean aircraft windshields	73
E195	Inspect aircraft windows or windshields	72
E394	Service engines with oil	72
E204	Inspect cargo door or ramp mechanical components	72
K789	Inspect external aircraft lights	72
E227	Inspect portable fire extinguishers	70
E176	Clean interior of aircraft	69
E295	Perform brake rider procedures during aircraft towing	68
F435	Inspect landing gear door mechanisms	68
O932	Clear Red-Diagonal conditions	67
E386	Service aircraft hydraulic systems	67
K790	Inspect external power receptacles	67
F436	Inspect landing gear down-lock mechanisms	67
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	66
O931	Clear Red-Dash conditions	65
K792	Inspect internal aircraft lights, other than emergency lights	65
E210	Inspect crew door systems	65
E275	Operationally check cargo doors or ramps	64
E265	Operate aircraft radios	64
H610	Inspect ailerons	63
E387	Service aircraft LOX systems	62
E203	Inspect cargo compartment pressure doors	62
F430	Inspect brake system components	62
L835	Inspect engine cowling, panel, or door latches	62
J759	Inspect aircraft for fuel leaks	62
E218	Inspect ladder systems, such as entry, flight station, or troop compartment	62
J778	Transfer fuel within aircraft	62
F452	Inspect landing gear trucks, torque struts, or bogies	61

TABLE 48

TASKS WHICH BEST DIFFERENTIATE BETWEEN AFRC DAFSC 2A531X AND 2A551X PERSONNEL

TASKS	DAFSC 2A531X (N=50)	DAFSC 2A551X (N=896)	DIFFERENCE
L844 Inspect engine nacelles	62	46	16
K786 Inspect aircraft battery vent systems	48	34	14
L850 Inspect propellers, brush-blocks, or related components	24	11	13
E267 Operate landing gear or wheel well doors	30	52	-22
F479 Remove or install landing gear doors	22	44	-22
A7 Conduct self-inspections or self-assessments	12	35	-23
E155 Adjust cargo compartment pressure door latching mechanisms or linkages	18	41	-23
E365 Remove or install radomes	14	37	-23
F502 Troubleshoot brake systems	4	28	-24
E169 Adjust sliding or swinging window latching mechanisms or linkages	14	38	-24
F478 Remove or install landing gear door system components	10	34	-24
E165 Adjust liferaft door release latching mechanisms or linkages	12	36	-24
B88 Counsel trainees on training progress	4	29	-25
A27 Direct aircraft refueling or defueling operations	28	54	-26
B101 Maintain training records or files	14	40	-26
H633 Operationally check elevator systems	24	50	-26
E403 Troubleshoot cargo door systems	18	45	-27
H631 Operationally check aileron systems	26	53	-27
A26 Direct aircraft jacking operations	8	35	-27
E162 Adjust escape hatches for fit and pressurization	12	40	-28
E404 Troubleshoot cargo ramp systems	12	41	-29
H638 Operationally check rudder systems	22	51	-29
A76 Supervise military personnel	4	34	-30
B86 Conduct OJT	8	45	-37

TABLE 49

## REPRESENTATIVE TASKS PERFORMED BY AFRC 2A551J PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=735)	
E179	Connect or disconnect external electrical aircraft power	90
E297	Perform foreign object damage (FOD) walks	88
E264	Operate aircraft interphones	83
E304	Perform wing or tail walker procedures during aircraft towing	81
E389	Service aircraft tires	80
E320	Remove or install aircraft hardware, such as screws or fasteners	79
E257	Lubricate aircraft components	79
E250	Jack or level aircraft	79
E261	Open or close engine cowlings, panels, or doors	78
E204	Inspect cargo door or ramp mechanical components	78
E188	Inspect access doors, hatches, or panels	77
E294	Perform aircraft fueling or defueling	76
E190	Inspect aircraft for corrosion	76
E251	Launch or recover aircraft	76
F425	Inspect aircraft wheel and tire assemblies	76
E194	Inspect aircraft shock struts	76
E307	Position fire extinguishers	76
F451	Inspect landing gear struts	73
E387	Service aircraft LOX systems	71
E394	Service engines with oil	71
E175	Clean aircraft windshields	71
E227	Inspect portable fire extinguishers	70
E195	Inspect aircraft windows or windshields	70
K789	Inspect external aircraft lights	70
E275	Operationally check cargo doors or ramps	70
F435	Inspect landing gear door mechanisms	69
O932	Clear Red-Diagonal conditions	68
E206	Inspect cargo ramp seals	68
E176	Clean interior of aircraft	67
E386	Service aircraft hydraulic systems	67
E210	Inspect crew door systems	67
E295	Perform brake rider procedures during aircraft towing	66
K790	Inspect external power receptacles	66
O931	Clear Red-Dash conditions	65
E203	Inspect cargo compartment pressure doors	65
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	65
E265	Operate aircraft radios	65
F436	Inspect landing gear down-lock mechanisms	65
K792	Inspect internal aircraft lights, other than emergency lights	64
E218	Inspect ladder systems, such as entry, flight station, or troop compartment	63
H610	Inspect ailerons	62
F450	Inspect landing gear structural components	61
F452	Inspect landing gear trucks, torque struts, or bogies	61
F430	Inspect brake system components	61
E229	Inspect pressure seals, such as crew door, ramp, or visor seals	61

**DAFSC 2A551L.** The 161 airmen in the DAFSC 2A551L represent 10 percent of the AFRC sample and 18 percent of AFRC 5-skill level airmen. The predominate paygrades are E-5 (53 percent) and E-6 (32 percent). As with the other Aerospace Maintenance shreds, the primary job cluster for the L-shred is the Crew Chief Cluster (71 percent) with very small percentages distributed throughout the other jobs.

Also, like the other shreds, these airmen spent the majority of their relative job time in Duty E, Performing General Airframe and Aircraft Maintenance (42 percent) and Duty F, Maintaining Landing Gear Systems (11 percent) (see Table 12). The average number of tasks performed by all the AFRC 2A551L DAFSC is 197 tasks. See Table 50 for representative tasks performed by these airmen.

Skill-Level Descriptions  
(AFRC - DAFSCs 2A571 and 2A590)

**DAFSC 2A571.** The 651 airmen in the 7-skill level group represent 41 percent of the AFRC survey sample. The predominate paygrades for this group are E-6 (51 percent) and E-7 (36 percent).

Unlike their junior counterparts at the 3- and 5-skill levels, higher percentages of these personnel are found in technical as well as supervisory jobs. Unlike their active duty counterparts, a larger percentage of AFRC 7-skill level airmen work in the Crew Chief Cluster (27 versus 55 percent, respectively) (see Tables 7 and 8).

Thirty-one percent of their job time is spend in Duty E, Performing General Airframe and Aircraft Maintenance, and 16 percent in Duty A, Performing Management and Supervisory Activities (see Table 12). The average number of tasks performed by AFRC 7-skill level members is 225. See Table 51 for representative tasks performed by 7-skill level AFRC personnel. The managerial role that 7-skill level personnel perform is the main distinguishing feature between them and the 5-skill level personnel, as shown by figures in Table 52.

Skill-Level Descriptions  
(ANG - DAFSC 2A551J/K/L)

**DAFSC 2A551X.** The 565 ANG airmen holding the 5-skill level constitute 60 percent of the ANG survey sample. This group is composed of 3 shreds: 2A551J DAFSC (49 percent), 2A551K DAFSC (7 percent) and 2A551L DAFSC (44 percent). The primary paygrades for these guardsmen are E-4 (23 percent), E-5 (55 percent) and E-6 (18 percent).

TABLE 50

## REPRESENTATIVE TASKS PERFORMED BY AFRC 2A551L PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=161)	
E179	Connect or disconnect external electrical aircraft power	92
E297	Perform foreign object damage (FOD) walks	91
E304	Perform wing or tail walker procedures during aircraft towing	91
E194	Inspect aircraft shock struts	86
E264	Operate aircraft interphones	86
E389	Service aircraft tires	86
E261	Open or close engine cowlings, panels, or doors	86
F425	Inspect aircraft wheel and tire assemblies	85
E188	Inspect access doors, hatches, or panels	83
E175	Clean aircraft windshields	83
E251	Launch or recover aircraft	82
E195	Inspect aircraft windows or windshields	81
E307	Position fire extinguishers	81
E190	Inspect aircraft for corrosion	81
E294	Perform aircraft fueling or defueling	80
E320	Remove or install aircraft hardware, such as screws or fasteners	78
E176	Clean interior of aircraft	78
E257	Lubricate aircraft components	78
K789	Inspect external aircraft lights	78
E394	Service engines with oil	78
E295	Perform brake rider procedures during aircraft towing	76
F451	Inspect landing gear struts	76
E321	Remove or install aircraft protective coverings, such as intake plugs	73
E267	Operate landing gear or wheel well doors	73
K792	Inspect internal aircraft lights, other than emergency lights	73
J759	Inspect aircraft for fuel leaks	72
L835	Inspect engine cowling, panel, or door latches	72
F436	Inspect landing gear down-lock mechanisms	72
E227	Inspect portable fire extinguishers	71
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	71
J778	Transfer fuel within aircraft	71
M891	Perform preuse inspections of powered AGE	70
E250	Jack or level aircraft	70
K790	Inspect external power receptacles	70
E386	Service aircraft hydraulic systems	70
L836	Inspect engine cowlings, panels, or doors	69
E396	Service gaseous oxygen systems	69
M890	Perform preuse inspections of nonpowered AGE	68
I738	Service aircraft accumulators	68
K805	Remove or install aircraft batteries	68
F430	Inspect brake system components	67
G540	Inspect portable oxygen bottles	67
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	66
O932	Clear Red-Diagonal conditions	66
H610	Inspect ailerons	66

TABLE 51

## REPRESENTATIVE TASKS PERFORMED BY AFRC 2A571 PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=651)	
E297	Perform foreign object damage (FOD) walks	79
E179	Connect or disconnect external electrical aircraft power	76
E304	Perform wing or tail walker procedures during aircraft towing	73
E264	Operate aircraft interphones	71
O932	Clear Red-Diagonal conditions	70
O931	Clear Red-Dash conditions	70
E251	Launch or recover aircraft	69
E389	Service aircraft tires	69
E261	Open or close engine cowlings, panels, or doors	69
O946	Review aircraft flight or maintenance records, such as AF Forms 781 series	68
E294	Perform aircraft fueling or defueling	68
E194	Inspect aircraft shock struts	68
E307	Position fire extinguishers	68
F425	Inspect aircraft wheel and tire assemblies	68
E188	Inspect access doors, hatches, or panels	67
E257	Lubricate aircraft components	67
E320	Remove or install aircraft hardware, such as screws or fasteners	66
E250	Jack or level aircraft	66
E190	Inspect aircraft for corrosion	65
E195	Inspect aircraft windows or windshields	65
F451	Inspect landing gear struts	65
E295	Perform brake rider procedures during aircraft towing	64
A76	Supervise military personnel	63
A27	Direct aircraft refueling or defueling operations	63
E394	Service engines with oil	63
E302	Perform tow supervisor procedures during aircraft towing	62
E204	Inspect cargo door or ramp mechanical components	62
K789	Inspect external aircraft lights	62
E227	Inspect portable fire extinguishers	61
E175	Clean aircraft windshields	61
E210	Inspect crew door systems	61
F435	Inspect landing gear door mechanisms	60
E265	Operate aircraft radios	60
F436	Inspect landing gear down-lock mechanisms	60
E176	Clean interior of aircraft	59
E386	Service aircraft hydraulic systems	59
K790	Inspect external power receptacles	59
H610	Inspect ailerons	59
H614	Inspect elevators	59
A6	Conduct safety inspections of equipment or facilities	58
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	58
L835	Inspect engine cowling, panel, or door latches	58
B86	Conduct OJT	57
K792	Inspect internal aircraft lights, other than emergency lights	57
F430	Inspect brake system components	57

TABLE 52

TASKS WHICH BEST DIFFERENTIATE BETWEEN AFRC DUTY DAFSC 2A551X AND 2A571 PERSONNEL

TASKS	DAFSC 2A551X (N=896)	DAFSC 2A571 (N=651)	DIFFERENCE
E179 Connect or disconnect external electrical aircraft power	91	76	15
E387 Service aircraft LOX systems	62	48	14
A76 Supervise military personnel	34	63	-29
A17 Determine or establish work assignments or priorities	29	56	-27
A2 Assign personnel to work areas or duty positions, other than mobility positions	22	47	-25
O933 Clear Red-X conditions	31	55	-25
A14 Counsel subordinates concerning personal matters	21	45	-24
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	23	46	-23
A51 Evaluate personnel for compliance with performance standards or technical orders	17	39	-22
A52 Evaluate personnel for promotion, demotion, reclassification, or special awards	10	32	-22
A60 Inspect personnel for compliance with military standards	22	44	-22
A69 Plan or schedule work assignments or priorities	17	39	-22
B97 Evaluate progress of trainees	26	47	-22
A9 Conduct supervisory orientations for newly assigned personnel	14	34	-20
A10 Conduct supervisory performance feedback sessions	13	33	-20
A21 Develop or establish work schedules	14	34	-20
A61 Interpret policies, directives, or procedures for subordinates	13	33	-20
B88 Counsel trainees on training progress	29	49	-20
A78 Write performance reports or supervisory appraisals	9	28	-19

Only 18 percent of these members report they supervise. These airmen primarily work in the Crew Chief Cluster (72 percent) (see Table 9) and like their active duty and reservist counterparts, these guardsmen primarily work on the flight line. Their job titles are associated with their crew chief position and include Aircraft Crew Chief, Assistant Crew Chief, Dedicated Crew Chief, Flying Crew Chief, Flight Chief, and Ground Crew Chief.

These guardsmen spend 42 percent of job time in Duty E, Performing General Airframe and Aircraft Maintenance and 11 percent in Duty F, Maintaining Landing Gear Systems. Eight percent of their relative job time is spent in Duty H, Performing General Airframe and Aircraft Maintenance. Guardsmen spend more job time on technical duties than do their active duty or reservist counterparts. These guardsmen perform an average of 214 tasks, similar to their reservist counterpart (219 tasks), yet more than their active duty counterparts (182 tasks). Table 53 displays the representative tasks performed by this group.

**DAFSC 2A551J.** The 275 airmen in the ANG DAFSC 2A551J represent 29 percent of the total ANG sample. This group makes up 8 percent of all 5-skill levels in the survey and 49 percent of all ANG 5-skill level airmen. The predominate paygrades are E-4 (25 percent) and E-5 (57 percent).

They work primarily in the Crew Chief Cluster (70 percent). Their predominate job titles are Assistant Crew Chief, Isochronal or Phase Inspector, Aircraft Crew Chief, and Flight Line Crew Chief. Twelve percent of these guardsmen report having a direct supervisory position. This 5-skill level group performs the largest number of tasks (227) for any 5-skill level group in the survey. Table 54 lists representative tasks performed by these airmen.

**DAFSC 2A551K.** The 42 airmen in the 2A551K DAFSC represent 4 percent of the total ANG sample. This group makes up 7 percent of all ANG 5-skill level airmen. Fifty percent of the personnel in this group are in the E-6 paygrade. Only 6 percent of these airmen report that they supervise other personnel.

These guardsmen work primarily in the Crew Chief Cluster (74 percent) (see Table 9). In comparison to their active duty counterparts, these guardsmen spent a larger percentage of their relative job time on maintaining airframes, landing gears, flight control systems, electrical systems, general airframe and aircraft maintenance (see Tables 11 and 13). This group performs an average of 195 tasks, in comparison to 148 tasks performed by their active duty counterparts. Representative tasks for this group are displayed in Table 55.

**DAFSC 2A551L.** The 248 airmen in the 2A551L DAFSC represent 26 percent of the ANG sample and make 44 percent of ANG 5-skill level airmen. The predominate paygrades are E-4 (23 percent), E-5 (54 percent), and E-6 (18 percent).

TABLE 53

## REPRESENTATIVE TASKS PERFORMED BY ANG 2A551X PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=565)	
E179	Connect or disconnect external electrical aircraft power	90
E297	Perform foreign object damage (FOD) walks	89
E304	Perform wing or tail walker procedures during aircraft towing	88
E264	Operate aircraft interphones	87
E194	Inspect aircraft shock struts	87
E261	Open or close engine cowlings, panels, or doors	86
E389	Service aircraft tires	86
E251	Launch or recover aircraft	85
E257	Lubricate aircraft components	85
E294	Perform aircraft fueling or defueling	83
E320	Remove or install aircraft hardware, such as screws or fasteners	82
E307	Position fire extinguishers	82
E190	Inspect aircraft for corrosion	82
E175	Clean aircraft windshields	82
E188	Inspect access doors, hatches, or panels	81
F425	Inspect aircraft wheel and tire assemblies	81
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	81
E195	Inspect aircraft windows or windshields	81
E394	Service engines with oil	79
K789	Inspect external aircraft lights	79
E386	Service aircraft hydraulic systems	79
E295	Perform brake rider procedures during aircraft towing	78
E176	Clean interior of aircraft	77
F451	Inspect landing gear struts	77
E250	Jack or level aircraft	75
M890	Perform preuse inspections of nonpowered AGE	72
E227	Inspect portable fire extinguishers	72
J759	Inspect aircraft for fuel leaks	72
E321	Remove or install aircraft protective coverings, such as intake plugs	71
K792	Inspect internal aircraft lights, other than emergency lights	70
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	70
L835	Inspect engine cowling, panel, or door latches	70
K790	Inspect external power receptacles	70
K805	Remove or install aircraft batteries	70
M891	Perform preuse inspections of powered AGE	69
O932	Clear Red-Diagonal conditions	69
H623	Inspect rudders	69
J778	Transfer fuel within aircraft	69
F436	Inspect landing gear down-lock mechanisms	69
H610	Inspect ailerons	68
L836	Inspect engine cowlings, panels, or doors	67
E267	Operate landing gear or wheel well doors	66
H614	Inspect elevators	66
F435	Inspect landing gear door mechanisms	66
O931	Clear Red-Dash conditions	65

TABLE 54

## REPRESENTATIVE TASKS PERFORMED BY ANG 2A551J PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=275)	
E297	Perform foreign object damage (FOD) walks	89
E179	Connect or disconnect external electrical aircraft power	88
E264	Operate aircraft interphones	86
E261	Open or close engine cowlings, panels, or doors	85
E304	Perform wing or tail walker procedures during aircraft towing	85
E194	Inspect aircraft shock struts	85
E257	Lubricate aircraft components	84
E389	Service aircraft tires	84
E320	Remove or install aircraft hardware, such as screws or fasteners	83
E251	Launch or recover aircraft	83
E190	Inspect aircraft for corrosion	82
E188	Inspect access doors, hatches, or panels	81
E294	Perform aircraft fueling or defueling	81
F425	Inspect aircraft wheel and tire assemblies	81
E250	Jack or level aircraft	81
E204	Inspect cargo door or ramp mechanical components	81
E387	Service aircraft LOX systems	80
E307	Position fire extinguishers	79
E195	Inspect aircraft windows or windshields	79
E176	Clean interior of aircraft	78
E175	Clean aircraft windshields	78
K789	Inspect external aircraft lights	78
F451	Inspect landing gear struts	77
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	76
E394	Service engines with oil	76
E386	Service aircraft hydraulic systems	76
K792	Inspect internal aircraft lights, other than emergency lights	73
M890	Perform preuse inspections of nonpowered AGE	72
E227	Inspect portable fire extinguishers	72
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	72
K790	Inspect external power receptacles	72
E275	Operationally check cargo doors or ramps	72
F435	Inspect landing gear door mechanisms	72
H614	Inspect elevators	72
E295	Perform brake rider procedures during aircraft towing	71
E210	Inspect crew door systems	71
H610	Inspect ailerons	71
M891	Perform preuse inspections of powered AGE	70
O932	Clear Red-Diagonal conditions	70
F450	Inspect landing gear structural components	70
H623	Inspect rudders	70
J759	Inspect aircraft for fuel leaks	69
K805	Remove or install aircraft batteries	69
F457	Lubricate main landing gear jack screws	68

TABLE 55

## REPRESENTATIVE TASKS PERFORMED BY ANG 2A551K PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=42)	
E179	Connect or disconnect external electrical aircraft power	90
E194	Inspect aircraft shock struts	90
E320	Remove or install aircraft hardware, such as screws or fasteners	88
E304	Perform wing or tail walker procedures during aircraft towing	88
E257	Lubricate aircraft components	88
E224	Inspect overwing fairings	86
E264	Operate aircraft interphones	86
E245	Inspect weapons bay doors	86
E297	Perform foreign object damage (FOD) walks	86
E294	Perform aircraft fueling or defueling	83
E188	Inspect access doors, hatches, or panels	83
E295	Perform brake rider procedures during aircraft towing	81
E307	Position fire extinguishers	81
E321	Remove or install aircraft protective coverings, such as intake plugs	81
F451	Inspect landing gear struts	81
E386	Service aircraft hydraulic systems	81
E189	Inspect accessory drive gearboxes (ADGs)	81
E220	Inspect magnetic chip detectors	81
F436	Inspect landing gear down-lock mechanisms	81
F425	Inspect aircraft wheel and tire assemblies	79
E261	Open or close engine cowlings, panels, or doors	79
E251	Launch or recover aircraft	79
E199	Inspect antennas	79
E388	Service aircraft nitrogen systems	79
E269	Operate weapons bay doors	79
E195	Inspect aircraft windows or windshields	76
E394	Service engines with oil	76
E225	Inspect permanently installed aircraft fire extinguishers	76
J778	Transfer fuel within aircraft	76
O932	Clear Red-Diagonal conditions	76
O931	Clear Red-Dash conditions	76
E266	Operate centralized aircraft support systems (CASSs)	76
H623	Inspect rudders	76
E400	Take engine oil samples for analysis, such as joint oil analysis program (JOAP)	76
E369	Remove or install safety devices, such as seat pins or gear locks	74
J759	Inspect aircraft for fuel leaks	74
K804	Perform CITS ground readiness tests (GRTs)	74
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	74
E175	Clean aircraft windshields	74
E267	Operate landing gear or wheel well doors	74
K789	Inspect external aircraft lights	74
E218	Inspect ladder systems, such as entry, flight station, or troop compartment	74
E180	Connect or disconnect hydraulic test stands to or from aircraft	74
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	74
E190	Inspect aircraft for corrosion	71

As with the other Aerospace Maintenance shreds, the primary job cluster for this group is the Crew Chief Cluster (73 percent) (see Table 9). These guardsmen work primarily on the flight line (63 percent) with an additional 26 percent working on the inspection dock. Eighty-five percent of these guardsmen report that they do not supervise. This group has the largest percentage of guardsmen stationed outside of CONUS (12 percent).

Like the other shreds, these airmen spent the majority of their job time in Duty E, Performing General Airframe and Aircraft Maintenance (42 percent) and Duty F, Maintaining Landing Gear Systems (10 percent) (see Table 13). The average number of tasks performed by all the AFRC 2A551L DAFSC is 204 tasks. See Table 56 for representative tasks performed by these airmen.

#### Skill-Level Descriptions (ANG - DAFSCs 2A571 and 2A590)

**DAFSC 2A571.** The 372 airmen in the 7-skill level group represent 39 percent of the ANG sample and the predominate paygrade is E-6 (56 percent). Unlike their junior counterparts at the 3- and 5-skill levels, higher percentages of these personnel are performing supervisory, as well as technical tasks. A larger percent of 7-skill level guardsmen work in the Crew Chief Cluster than the other 2 components (i.e., active duty 27 percent, AFRC 55 percent, and ANG 64 percent) (see Tables 7, 8 and 9)

The average number of tasks performed by all ANG 7-skill level members is 267. See Table 57 for representative tasks performed by 7-skill level ANG personnel. The managerial role these 7-skill level members perform is the main distinguishing feature between them and the 5-skill level personnel. Table 58 displays those tasks that best differentiate between the 5- and 7-skill level DAFSC.

**DAFSC 2A590.** Only five incumbents make up the ANG 9-skill level group. This group constitutes less than 1 percent of the total ANG survey sample. Three of these airmen work in the QA Evaluator Job, with the additional two working in the Supervisor Cluster. ANG representative tasks for this small group are displayed in Table 59. Table 60 displays those tasks that best differentiate between the 7- and 9-skill level DAFSCs.

#### Summary

Distinctions between ANG skill-level groups are evident, with personnel at the 3- and 5-skill levels spending the vast majority of their job time performing technical tasks across a number of different jobs. At the 7-skill level, the shift towards supervisory tasks becomes quite clear. Active duty members report performing more managerial tasks and tasks pertaining to aircraft systems repair. Guardsmen and reservists reported performing more aircraft ground handling or servicing tasks than active duty personnel. Table 61 compares representative tasks performed by active duty personnel to representative tasks performed by AFRC personnel. Table 62 compares

TABLE 56

## REPRESENTATIVE TASKS PERFORMED BY ANG 2A551L PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=248)	
E179	Connect or disconnect external electrical aircraft power	92
E304	Perform wing or tail walker procedures during aircraft towing	91
E261	Open or close engine cowlings, panels, or doors	90
E389	Service aircraft tires	90
E297	Perform foreign object damage (FOD) walks	90
E175	Clean aircraft windshields	89
E251	Launch or recover aircraft	88
E194	Inspect aircraft shock struts	88
E264	Operate aircraft interphones	87
E257	Lubricate aircraft components	86
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	86
E294	Perform aircraft fueling or defueling	85
E307	Position fire extinguishers	85
E190	Inspect aircraft for corrosion	84
E394	Service engines with oil	84
E295	Perform brake rider procedures during aircraft towing	84
E195	Inspect aircraft windows or windshields	84
E386	Service aircraft hydraulic systems	83
E188	Inspect access doors, hatches, or panels	81
F425	Inspect aircraft wheel and tire assemblies	81
K789	Inspect external aircraft lights	81
E320	Remove or install aircraft hardware, such as screws or fasteners	80
E176	Clean interior of aircraft	80
E205	Inspect cargo loading struts or tail stands	80
E396	Service gaseous oxygen systems	77
E391	Service crew or passenger comfort facilities, such as latrines or galleys	76
F451	Inspect landing gear struts	76
E227	Inspect portable fire extinguishers	75
E321	Remove or install aircraft protective coverings, such as intake plugs	74
J759	Inspect aircraft for fuel leaks	74
L835	Inspect engine cowling, panel, or door latches	74
E267	Operate landing gear or wheel well doors	73
M890	Perform preuse inspections of nonpowered AGE	73
K805	Remove or install aircraft batteries	73
L836	Inspect engine cowlings, panels, or doors	72
E250	Jack or level aircraft	72
E330	Remove or install cargo loading struts or tail stands	71
E303	Perform tow vehicle operator procedures during aircraft towing	71
J778	Transfer fuel within aircraft	71
I738	Service aircraft accumulators	70
M891	Perform preuse inspections of powered AGE	69
H610	Inspect ailerons	69
E212	Inspect crew or passenger comfort facilities, such as latrines or galleys	68
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	68
K790	Inspect external power receptacles	68
F436	Inspect landing gear down-lock mechanisms	68

TABLE 57

## REPRESENTATIVE TASKS PERFORMED BY ANG 2A571 PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=372)	
E297	Perform foreign object damage (FOD) walks	84
E264	Operate aircraft interphones	79
E304	Perform wing or tail walker procedures during aircraft towing	78
E179	Connect or disconnect external electrical aircraft power	77
O932	Clear Red-Diagonal conditions	76
E261	Open or close engine cowlings, panels, or doors	76
O931	Clear Red-Dash conditions	75
E257	Lubricate aircraft components	75
E389	Service aircraft tires	75
O946	Review aircraft flight or maintenance records, such as AF Forms 781 series	74
E251	Launch or recover aircraft	74
E320	Remove or install aircraft hardware, such as screws or fasteners	74
E188	Inspect access doors, hatches, or panels	74
E190	Inspect aircraft for corrosion	74
F425	Inspect aircraft wheel and tire assemblies	74
E250	Jack or level aircraft	74
E194	Inspect aircraft shock struts	73
E295	Perform brake rider procedures during aircraft towing	73
E307	Position fire extinguishers	72
F451	Inspect landing gear struts	72
E294	Perform aircraft fueling or defueling	71
E195	Inspect aircraft windows or windshields	71
E386	Service aircraft hydraulic systems	71
E175	Clean aircraft windshields	70
E302	Perform tow supervisor procedures during aircraft towing	70
K789	Inspect external aircraft lights	70
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	69
F435	Inspect landing gear door mechanisms	69
A27	Direct aircraft refueling or defueling operations	68
F436	Inspect landing gear down-lock mechanisms	68
E181	Debrief aircrews	67
E321	Remove or install aircraft protective coverings, such as intake plugs	67
E303	Perform tow vehicle operator procedures during aircraft towing	67
J759	Inspect aircraft for fuel leaks	67
E394	Service engines with oil	67
B86	Conduct OJT	66
E267	Operate landing gear or wheel well doors	66
E227	Inspect portable fire extinguishers	66
F450	Inspect landing gear structural components	66
H623	Inspect rudders	66
H610	Inspect ailerons	66
H614	Inspect elevators	66
E176	Clean interior of aircraft	65
L835	Inspect engine cowling, panel, or door latches	65
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	65

TABLE 58

TASKS WHICH BEST DIFFERENTIATE BETWEEN ANG DAFSC 2A551X AND 2A571 PERSONNEL

TASKS	DAFSC 2A551X (N=565)	DAFSC 2A571 (N=372)	DIFFERENCE
A56 Evaluate workload requirements	6	26	-19
L854 Operationally check engines	22	43	-21
C128 Maintain technical order libraries	23	44	-21
C134 Review technical order changes	27	48	-21
A40 Evaluate aircraft configuration changes	17	38	-22
A21 Develop or establish work schedules	9	30	-22
A52 Evaluate personnel for promotion, demotion, reclassification, or special awards	7	29	-22
A11 Coordinate aircraft launch and recovery times with aircrews or appropriate agencies	17	39	-22
A69 Plan or schedule work assignments or priorities	13	35	-22
E181 Debrief aircrews	44	67	-23
B89 Determine training requirements	13	37	-24
A14 Counsel subordinates concerning personal matters	15	38	-24
A2 Assign personnel to work areas or duty positions, other than mobility positions	16	40	-24
A51 Evaluate personnel for compliance with performance standards or technical orders	10	35	-25
A13 Coordinate maintenance or supply problems with appropriate agencies	24	49	-25
A60 Inspect personnel for compliance with military standards	13	38	-25
A26 Direct aircraft jacking operations	27	53	-25
A12 Coordinate cannibalization of parts with appropriate agencies	17	42	-25
A42 Evaluate in-process maintenance	16	44	-27
B106 Schedule personnel for training	12	40	-28
B86 Conduct OJT	36	66	-29
B97 Evaluate progress of trainees	19	49	-30
B96 Evaluate personnel to determine training needs	14	44	-30
B103 Plan or schedule training	16	47	-31
B101 Maintain training records or files	28	59	-31
A29 Direct training functions	19	52	-33
B88 Counsel trainees on training progress	21	54	-33
A17 Determine or establish work assignments or priorities	26	60	-34
O933 Clear Red-X conditions	25	59	-34
A76 Supervise military personnel	24	61	-38

TABLE 59

## REPRESENTATIVE TASKS PERFORMED BY ANG 2A590 PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=5)	
E297	Perform foreign object damage (FOD) walks	87
E179	Connect or disconnect external electrical aircraft power	85
E304	Perform wing or tail walker procedures during aircraft towing	84
E264	Operate aircraft interphones	83
E261	Open or close engine cowlings, panels, or doors	82
E257	Lubricate aircraft components	81
E194	Inspect aircraft shock struts	81
E389	Service aircraft tires	81
E251	Launch or recover aircraft	80
E190	Inspect aircraft for corrosion	79
E320	Remove or install aircraft hardware, such as screws or fasteners	78
E294	Perform aircraft fueling or defueling	78
E188	Inspect access doors, hatches, or panels	78
E307	Position fire extinguishers	78
F425	Inspect aircraft wheel and tire assemblies	78
E175	Clean aircraft windshields	77
E195	Inspect aircraft windows or windshields	77
E295	Perform brake rider procedures during aircraft towing	76
E386	Service aircraft hydraulic systems	76
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	75
K789	Inspect external aircraft lights	75
F451	Inspect landing gear struts	75
E394	Service engines with oil	74
E250	Jack or level aircraft	74
E176	Clean interior of aircraft	72
O932	Clear Red-Diagonal conditions	71
E227	Inspect portable fire extinguishers	70
J759	Inspect aircraft for fuel leaks	70
E321	Remove or install aircraft protective coverings, such as intake plugs	69
O931	Clear Red-Dash conditions	69
O946	Review aircraft flight or maintenance records, such as AF Forms 781 series	68
M890	Perform preuse inspections of nonpowered AGE	68
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	68
L835	Inspect engine cowling, panel, or door latches	68
H623	Inspect rudders	68
F436	Inspect landing gear down-lock mechanisms	68
K792	Inspect internal aircraft lights, other than emergency lights	67
K790	Inspect external power receptacles	67
H610	Inspect ailerons	67
F435	Inspect landing gear door mechanisms	67
M891	Perform preuse inspections of powered AGE	66
E267	Operate landing gear or wheel well doors	66
L836	Inspect engine cowlings, panels, or doors	66
H614	Inspect elevators	66
J778	Transfer fuel within aircraft	66
K805	Remove or install aircraft batteries	66

TABLE 60

TASKS WHICH BEST DIFFERENTIATE BETWEEN ANG DAFSC 2A571 AND 2A590 PERSONNEL

TASKS	DAFSC 2A571 (N=372)	DAFSC 2A590 (N=4)	DIFFERENCE
E389 Service aircraft tires	75	*	75
E320 Remove or install aircraft hardware, such as screws or fasteners	74	*	74
E386 Service aircraft hydraulic systems	71	*	71
E175 Clean aircraft windshields	70	*	70
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	69	*	69
E321 Remove or install aircraft protective coverings, such as intake plugs	67	*	67
E176 Clean interior of aircraft	65	*	65
E153 Adjust access door or hatch latching mechanisms or linkages	64	*	64
K805 Remove or install aircraft batteries	61	*	61
I738 Service aircraft accumulators	61	*	61
F497 Remove or install wheel and tire assemblies	61	*	61
E322 Remove or install aircraft windows or windshields	60	*	60
I742 Service hydraulic system reservoirs	59	*	59
E314 Remove or install access doors, hatches, or panels	59	*	59
F459 Operationally check brake systems	59	*	59
E369 Remove or install safety devices, such as seat pins or gear locks	59	*	59
A61 Interpret policies, directives, or procedures for subordinates	30	100	-70
P954 Brief deploying personnel	9	80	-71
A52 Evaluate personnel for promotion, demotion, reclassification, or special awards	29	100	-71
A49 Evaluate maintenance or utilization of equipment, tools, parts, supplies, or workspace	29	100	-71
A44 Evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) Program	28	100	-72
A56 Evaluate workload requirements	26	100	-74
A75 Supervise civilian employees	24	100	-76
A79 Write recommendations for awards or decorations	19	100	-81
A46 Evaluate job-related suggestions	19	100	-81
A80 Write replies to inspection reports	17	100	-83
A58 Initiate actions required due to substandard performance of personnel	17	100	-83
A1 Annotate time and attendance sheets for civilian employees	16	100	-84
A74 Schedule personnel for temporary duty (TDY) assignments, leaves, or passes	14	100	-86

TABLE 61

TASK WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A5X1X AND AFR 2A5X1X PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	ACTIVE DUTY DAFSC 2A5X1X (N=4,393)	AFRC DAFSC 2A5X1X (N=1,599)	DIFFERENCE
A78 Write performance reports or supervisory appraisals	35	16	19
A10 Conduct supervisory performance feedback sessions	40	21	19
A14 Counsel subordinates concerning personal matters	46	30	16
A79 Write recommendations for awards or decorations	31	18	13
A38 Establish performance standards for subordinates	31	19	13
E205 Inspect cargo loading struts or tail stands	26	47	-21
E229 Inspect pressure seals, such as crew door, ramp, or visor seals	37	58	-21
E192 Inspect aircraft LOX systems	26	46	-21
E259 Maintain security of hazardous materials, such as oil, rags, or grease	27	48	-21
F450 Inspect landing gear structural components	37	58	-21
E193 Inspect aircraft mooring attachment points	22	43	-21
E210 Inspect crew door systems	41	63	-21
E404 Troubleshoot cargo ramp systems	17	38	-22
H610 Inspect ailerons	39	61	-22
E389 Service aircraft tires	54	76	-22
E403 Troubleshoot cargo door systems	21	43	-22
E243 Inspect troop door systems	23	45	-22
F440 Inspect landing gear extension or retraction components	28	50	-22
H609 Inspect aileron systems	28	51	-22
F453 Inspect landing gear up-lock mechanisms	33	55	-22
F452 Inspect landing gear trucks, torque struts, or bogies	35	58	-23
E218 Inspect ladder systems, such as entry, flight station, or troop compartment	36	59	-23
E214 Inspect engine pylons or aprons	28	52	-24
F436 Inspect landing gear down-lock mechanisms	39	63	-24
E274 Operationally check cargo compartment pressure doors	18	43	-25
F435 Inspect landing gear door mechanisms	39	64	-25
E275 Operationally check cargo doors or ramps	31	60	-29
E206 Inspect cargo ramp seals	26	56	-30
E203 Inspect cargo compartment pressure doors	29	59	-30
E204 Inspect cargo door or ramp mechanical components	34	68	-34

TABLE 62

TASK WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A5X1X AND ANG DAFSC 2A5X1X  
(PERCENT MEMBERS PERFORMING)

TASKS	AD DAFSC 2A5X1X (N=4,393)	ANG DAFSC 2A5X1X (N=943)	DIFFERENCE
A10 Conduct supervisory performance feedback sessions	40	9	31
A78 Write performance reports or supervisory appraisals	35	7	28
A14 Counsel subordinates concerning personal matters	46	24	22
A79 Write recommendations for awards or decorations	31	11	21
A38 Establish performance standards for subordinates	31	15	17
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	34	75	-41
H622 Inspect rudder systems	29	57	-29
F436 Inspect landing gear down-lock mechanisms	39	68	-29
E180 Connect or disconnect hydraulic test stands to or from aircraft	22	50	-28
F435 Inspect landing gear door mechanisms	39	67	-28
E302 Perform tow supervisor procedures during aircraft towing	35	63	-28
F450 Inspect landing gear structural components	37	65	-28
H609 Inspect aileron systems	28	57	-28
E321 Remove or install aircraft protective coverings, such as intake plugs	43	69	-27
E190 Inspect aircraft for corrosion	52	79	-27
H623 Inspect rudders	41	68	-27
H613 Inspect elevator systems	27	54	-27
E389 Service aircraft tires	54	81	-27
E251 Launch or recover aircraft	53	80	-27
E255 Load or unload non-palletized cargo	16	43	-27
H610 Inspect ailerons	39	67	-27
E257 Lubricate aircraft components	55	81	-26
F425 Inspect aircraft wheel and tire assemblies	53	78	-26
E204 Inspect cargo door or ramp mechanical components	34	60	-26
F438 Inspect landing gear emergency extension systems	29	55	-26
H614 Inspect elevators	40	66	-26
P966 Identify chemical warfare agents	21	47	-26
F453 Inspect landing gear up-lock mechanisms	33	58	-26
H617 Inspect flight control cable tensions	16	42	-26

representative tasks performed by active duty to representative tasks performed by ANG personnel. Table 63 displays the percentage of relative job time spent on duties by the MAJCOM groups. See Appendix B for representative tasks performed by the total sample DAFSC groups and differences in tasks between 3- and 5-skill levels, 5- and 7-skill levels, and 7- and 9-skill levels.

## ANALYSIS OF MAJOR COMMANDS

Tasks and background data for the 10 MAJCOMs or field operating agencies with the largest AFSC 2A5X1 populations were compared to determine whether job content varied as a function of command assignment (see Table 63). Generally, all MAJCOMs showed high relative job time spent in performing general airframe or aircraft maintenance activities and performing aircraft ground handling or servicing tasks.

A difference was noted in the amount of relative job time spent in duties between active duty, ANG and AFRC personnel. Active duty personnel report spending more relative job time in managerial and supervisory duties than in technical duties, in comparison to their AFRC and ANG counterparts. Active Duty personnel spend 30 percent of their relative job time on Duties A through D, in comparison to 15 percent reported by AFRC personnel, and 13 percent by ANG personnel (see Table 64).

Another difference found between the three components was the reported average number of tasks performed by members of these groups. Active duty personnel reported performing 153 tasks in comparison to the 217 tasks performed by reservists, and 235 tasks performed by guardsmen.

## TRAINING ANALYSIS

Occupational survey data are sources of information which can be used to assist in the development of relevant training programs for entry-level personnel. Factors used to evaluate entry-level Aerospace Maintenance training include jobs being performed by first-enlistment personnel, overall distribution of first-enlistment personnel across career ladder jobs, percent first-job (1-24 month TAFMS) and first-enlistment (1-48 months TAFMS) members performing specific tasks or using specific equipment items, ratings of how much TE tasks should receive in formal training, and ratings of relative TD. *Note: As mentioned earlier, only Active Duty TAFMS data is used for this analysis.*

TABLE 63

## PERCENTAGE OF TIME SPENT ON DUTIES BY MAJCOM GROUPS

DUTIES	ACTIVE DUTY USAFE (N=112)	ACTIVE DUTY AETC (N=400)	ACTIVE DUTY PACAF (N=207)	ACTIVE DUTY AFSOC (N=202)	ACTIVE DUTY ACC (N=1,296)
A PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	21	19	22	19	18
B PERFORMING TRAINING ACTIVITIES	4	11	4	4	4
C PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	4	2	3	3	4
D PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	5	5	6	5	5
E PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	29	25	27	30	30
F MAINTAINING LANDING GEAR SYSTEMS	6	8	7	7	7
G MAINTAINING UTILITY SYSTEMS	3	3	3	4	3
H MAINTAINING FLIGHT CONTROL SYSTEMS	6	6	6	4	4
I MAINTAINING PNEUDRAULIC SYSTEMS	3	4	3	3	3
J MAINTAINING FUEL SYSTEMS	2	2	2	2	2
K MAINTAINING ELECTRICAL SYSTEMS	3	3	3	4	4
L MAINTAINING ENGINE SYSTEMS	3	3	3	4	4
M MAINTAINING AEROSPACE GROUND EQUIPMENT (AGE)	1	1	1	1	1
N MAINTAINING -21 AME, DUAL RAIL CARGO HANDLING SYSTEMS, AND -135 CARGO HANDLING SYSTEMS	2	3	3	3	2
O PERFORMING MAINTENANCE MANAGEMENT ACTIVITIES	7	5	5	5	6
P PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	1	*	2	3	3

\* Denotes less than .5 percent

TABLE 63 (CONTINUED)

## PERCENTAGE OF TIME SPENT ON DUTIES BY MAJCOM GROUPS

DUTIES	ACTIVE DUTY AMC (N=2,055)	ACTIVE DUTY AFMC (N=104)	ACTIVE DUTY AF ELM (N=8)	AIR NATIONAL GUARD (ANG) (N=943)	AIR FORCE RESERVES (AFRC) (N=1,599)
A PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	18	22	15	7	9
B PERFORMING TRAINING ACTIVITIES	4	3	18	2	3
C PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	3	6	1	2	1
D PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	6	4	6	2	2
E PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	30	26	29	37	38
F MAINTAINING LANDING GEAR SYSTEMS	7	8	7	11	11
G MAINTAINING UTILITY SYSTEMS	4	4	4	5	5
H MAINTAINING FLIGHT CONTROL SYSTEMS	5	6	4	7	7
I MAINTAINING PNEUDRAULIC SYSTEMS	3	5	3	5	4
J MAINTAINING FUEL SYSTEMS	2	2	2	3	3
K MAINTAINING ELECTRICAL SYSTEMS	3	3	3	5	5
L MAINTAINING ENGINE SYSTEMS	3	5	4	5	4
M MAINTAINING AEROSPACE GROUND EQUIPMENT (AGE)	1	1	1	1	1
N MAINTAINING -21 AME, DUAL RAIL CARGO HANDLING SYSTEMS, AND -135 CARGO HANDLING SYSTEMS	4	1	1	2	3
O PERFORMING MAINTENANCE MANAGEMENT ACTIVITIES	6	4	3	4	4
P PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	3	1	1	2	2

\* Denotes less than .5 percent

TABLE 64

RELATIVE PERCENT TIME SPENT ON DUTIES BY COMPONENTS  
TOTAL SAMPLE  
(N=6,935)

DUTIES	ACTIVE DUTY 2A5X1X N=4,393	AFRC 2A5X1X N=1,599	ANG 2A5X1X N=943
A Performing Management and Supervisory Activities	18	9	7
B Performing Training Activities	4	3	2
C Performing General Administrative and Technical Order System Activities	3	1	2
D Performing General Supply and Equipment Activities	5	2	2
E Performing General Airframe and Aircraft Maintenance	29	38	37
F Maintaining Landing Gear Systems	7	11	11
G Maintaining Utility Systems	3	5	5
H Maintaining Flight Control Systems	5	7	7
I Maintaining Pneudraulic Systems	3	4	5
J Maintaining Fuel Systems	2	3	3
K Maintaining Electrical Systems	3	4	5
L Maintaining Engine Systems	3	4	5
M Maintaining Aerospace Ground Equipment (AGE)	1	1	1
N Maintaining -21 AME, Dual Rail Cargo Handling Systems, and -135 Cargo Handling Systems	3	3	2
O Performing Maintenance Management Activities	6	4	4
P Performing Mobility And Contingency Activities	2	2	2

NOTE: Columns may not add to 100 percent due to rounding

First-Enlistment Personnel  
(Active Duty)

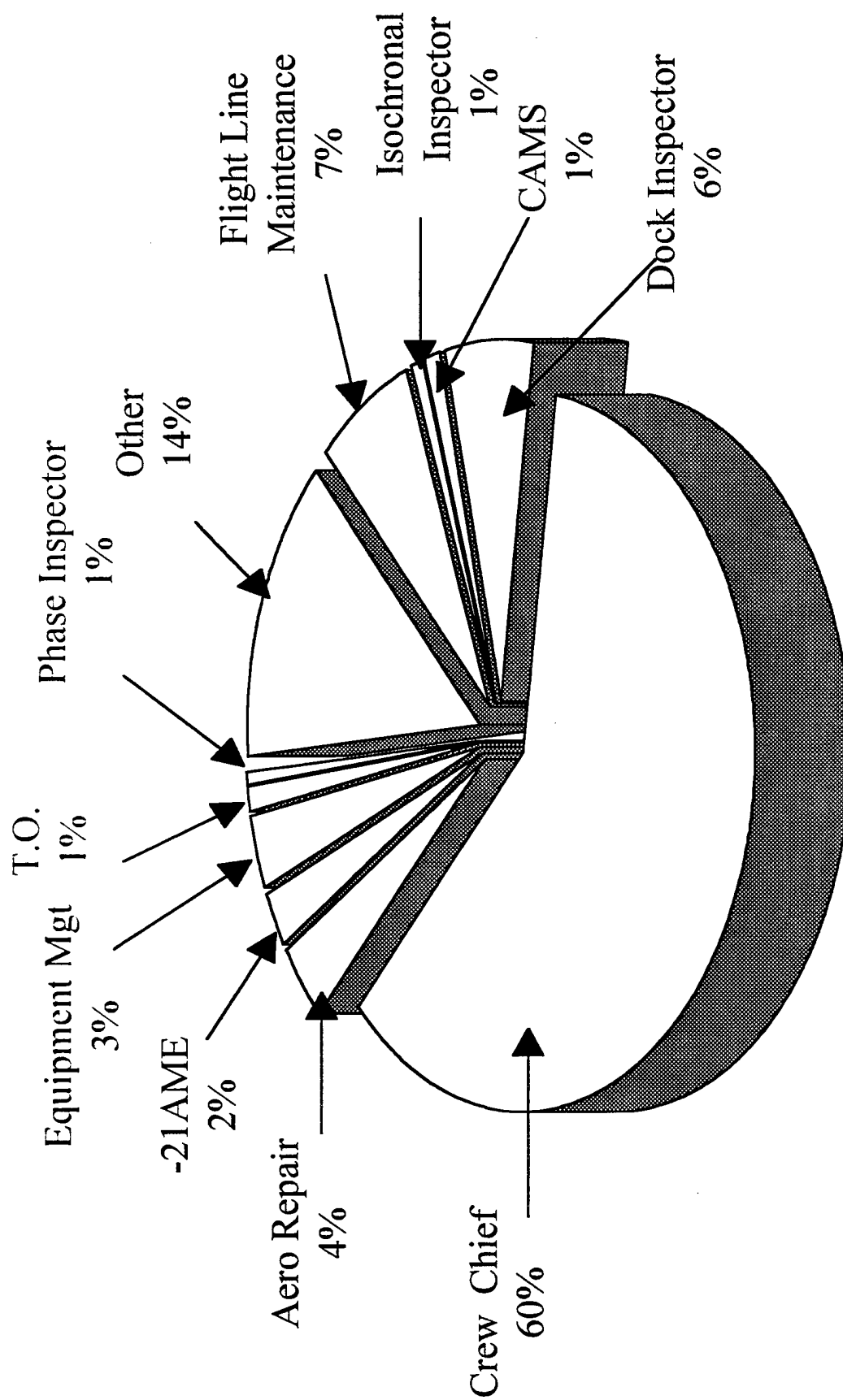
In this study, there are 1,067 AFSC 2A5X1X active duty members in their first enlistment (1-48 months TAFMS), representing 49 percent of the survey sample. The total of first-enlistment personnel in each shred is listed in the table displayed below.

**ACTIVE DUTY FIRST ENLISTMENT TOTALS**

<u>AFSC WITH SHRED</u>	<u>TOTAL</u>
2A531A	102
2A531B	138
2A531C	132
2A531D	77
2A531E	38
2A531F	36
2A531G	98
2A531H	110
2A551J	203
2A551K	69
<u>2A551L</u>	<u>64</u>
TOTAL	1,067

As shown in Figure 2, 60 percent of first-term personnel work in the Crew Chief Cluster. As indicated in Table 65, the active duty first-enlistment personnel spend 45 percent of their relative job time performing general airframe and aircraft maintenance, with an additional 10 percent of their relative job time performing general landing gear system activities. Tables 66 through 77 display representative tasks performed by first-enlistment personnel according to shreds. These tasks cover FOD walks, operating aircraft interphones, connecting or disconnecting external electrical aircraft power, and performing aircraft fueling or defueling.

As shown in Table 78, first-enlistment personnel use 22 pieces of equipment in large enough numbers (30 percent using) to give sufficient reasons for inclusion in a structured training program. This equipment ranges from use of air compressors to use of the oxygen carts. The major types of aircraft inspections performed by first-enlistment personnel (more than 30 percent performing) are listed below.



**FIRST-ENLISTMENT PERSONNEL JOBS**  
(N=1,068)

**FIGURE 2**

TABLE 65

RELATIVE PERCENT TIME SPENT ON DUTIES BY **ACTIVE DUTY**  
FIRST-ENLISTMENT PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=1,067)
A PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES	3
B PERFORMING TRAINING ACTIVITIES	*
C PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES	1
D PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES	4
E PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	45
F MAINTAINING LANDING GEAR SYSTEMS	10
G MAINTAINING UTILITY SYSTEMS	5
H MAINTAINING FLIGHT CONTROL SYSTEMS	5
I MAINTAINING PNEUDRAULIC SYSTEMS	4
J MAINTAINING FUEL SYSTEMS	3
K MAINTAINING ELECTRICAL SYSTEMS	5
L MAINTAINING ENGINE SYSTEMS	4
M MAINTAINING AEROSPACE GROUND EQUIPMENT (AGE)	2
N MAINTAINING -21 AME, DUAL RAIL CARGO HANDLING SYSTEMS, AND -135 CARGO HANDLING SYSTEMS	4
O PERFORMING MAINTENANCE MANAGEMENT ACTIVITIES	3
P PERFORMING MOBILITY AND CONTINGENCY ACTIVITIES	1

\* Denotes less than .5 percent

TABLE 66

REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A5X1  
FIRST-ENLISTMENT PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=1,067)
E297 Perform foreign object damage (FOD) walks	85
E179 Connect or disconnect external electrical aircraft power	84
E264 Operate aircraft interphones	80
E261 Open or close engine cowlings, panels, or doors	79
E304 Perform wing or tail walker procedures during aircraft towing	78
E257 Lubricate aircraft components	75
E389 Service aircraft tires	74
E294 Perform aircraft fueling or defueling	73
E194 Inspect aircraft shock struts	73
E307 Position fire extinguishers	72
E320 Remove or install aircraft hardware, such as screws or fasteners	71
E175 Clean aircraft windshields	71
E251 Launch or recover aircraft	70
E176 Clean interior of aircraft	70
E188 Inspect access doors, hatches, or panels	70
E295 Perform brake rider procedures during aircraft towing	70
F425 Inspect aircraft wheel and tire assemblies	69
E195 Inspect aircraft windows or windshields	69
E394 Service engines with oil	69
E190 Inspect aircraft for corrosion	68
E386 Service aircraft hydraulic systems	67
K789 Inspect external aircraft lights	67
E250 Jack or level aircraft	67
E227 Inspect portable fire extinguishers	65
O932 Clear Red-Diagonal conditions	64
F451 Inspect landing gear struts	63
O931 Clear Red-Dash conditions	62

Average number of tasks performed - 147

TABLE 67

REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY A-SHRED  
FIRST-ENLISTMENT PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=102)
E297 Perform foreign object damage (FOD) walks	83
E179 Connect or disconnect external electrical aircraft power	81
E264 Operate aircraft interphones	76
E257 Lubricate aircraft components	75
E261 Open or close engine cowlings, panels, or doors	74
E320 Remove or install aircraft hardware, such as screws or fasteners	73
E304 Perform wing or tail walker procedures during aircraft towing	72
E188 Inspect access doors, hatches, or panels	71
E389 Service aircraft tires	71
E295 Perform brake rider procedures during aircraft towing	70
E251 Launch or recover aircraft	69
E175 Clean aircraft windshields	69
E307 Position fire extinguishers	68
E294 Perform aircraft fueling or defueling	66
E190 Inspect aircraft for corrosion	65
E394 Service engines with oil	65
F425 Inspect aircraft wheel and tire assemblies	64
E195 Inspect aircraft windows or windshields	63
O932 Clear Red-Diagonal conditions	61
K789 Inspect external aircraft lights	61
E176 Clean interior of aircraft	57
E212 Inspect crew or passenger comfort facilities, such as latrines or galleys	53
E314 Remove or install access doors, hatches, or panels	52
D145 Inventory equipment, tools, parts, or supplies	45
O928 Access core automated maintenance system (CAMS) or G0-81 menus and data screens	38
F458 Lubricate wheel bearings	36

TABLE 68

REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY B-SHRED  
FIRST-ENLISTMENT PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=138)
E297 Perform foreign object damage (FOD) walks	85
E179 Connect or disconnect external electrical aircraft power	83
E264 Operate aircraft interphones	83
E261 Open or close engine cowlings, panels, or doors	81
E304 Perform wing or tail walker procedures during aircraft towing	80
E257 Lubricate aircraft components	78
E294 Perform aircraft fueling or defueling	78
E194 Inspect aircraft shock struts	77
E250 Jack or level aircraft	76
E176 Clean interior of aircraft	75
E190 Inspect aircraft for corrosion	75
E389 Service aircraft tires	74
E188 Inspect access doors, hatches, or panels	73
E175 Clean aircraft windshields	72
E260 Moor aircraft	72
E195 Inspect aircraft windows or windshields	71
E170 Bleed brake systems	71
E251 Launch or recover aircraft	70
E307 Position fire extinguishers	70
E262 Open or close radomes	70
E320 Remove or install aircraft hardware, such as screws or fasteners	69
E265 Operate aircraft radios	69
E387 Service aircraft LOX systems	69
K789 Inspect external aircraft lights	67
E295 Perform brake rider procedures during aircraft towing	67
E235 Inspect seats, seatbelts, inertial reels, or shoulder harnesses	66
E352 Remove or install liferafts	66

TABLE 69

**REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY C-SHRED  
FIRST-ENLISTMENT PERSONNEL**

TASKS	PERCENT MEMBERS PERFORMING (N=132)	
E297	Perform foreign object damage (FOD) walks	89
E264	Operate aircraft interphones	84
E179	Connect or disconnect external electrical aircraft power	84
E304	Perform wing or tail walker procedures during aircraft towing	84
E389	Service aircraft tires	80
E261	Open or close engine cowlings, panels, or doors	80
E320	Remove or install aircraft hardware, such as screws or fasteners	79
E257	Lubricate aircraft components	79
E307	Position fire extinguishers	78
E394	Service engines with oil	77
E294	Perform aircraft fueling or defueling	76
E387	Service aircraft LOX systems	76
E386	Service aircraft hydraulic systems	74
F425	Inspect aircraft wheel and tire assemblies	73
E250	Jack or level aircraft	71
O932	Clear Red-Diagonal conditions	70
E194	Inspect aircraft shock struts	69
E295	Perform brake rider procedures during aircraft towing	69
K789	Inspect external aircraft lights	68
F448	Inspect landing gear roll pin lock tabs	68
E175	Clean aircraft windshields	68
E176	Clean interior of aircraft	67
E188	Inspect access doors, hatches, or panels	67
E265	Operate aircraft radios	67
F451	Inspect landing gear struts	67
E251	Launch or recover aircraft	65
O931	Clear Red-Dash conditions	64
E190	Inspect aircraft for corrosion	64
E227	Inspect portable fire extinguishers	64
K805	Remove or install aircraft batteries	64

TABLE 70

**REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY D-SHRED  
FIRST-ENLISTMENT PERSONNEL**

TASKS	PERCENT MEMBERS PERFORMING (N=77)	
E297	Perform foreign object damage (FOD) walks	88
E179	Connect or disconnect external electrical aircraft power	86
E264	Operate aircraft interphones	83
E261	Open or close engine cowlings, panels, or doors	79
F425	Inspect aircraft wheel and tire assemblies	78
E307	Position fire extinguishers	78
E257	Lubricate aircraft components	77
E304	Perform wing or tail walker procedures during aircraft towing	77
E188	Inspect access doors, hatches, or panels	73
E389	Service aircraft tires	73
O931	Clear Red-Dash conditions	73
E294	Perform aircraft fueling or defueling	71
E195	Inspect aircraft windows or windshields	71
O932	Clear Red-Diagonal conditions	71
K789	Inspect external aircraft lights	71
E176	Clean interior of aircraft	70
E387	Service aircraft LOX systems	70
E227	Inspect portable fire extinguishers	70
E320	Remove or install aircraft hardware, such as screws or fasteners	69
E386	Service aircraft hydraulic systems	69
E251	Launch or recover aircraft	68
E190	Inspect aircraft for corrosion	68
E394	Service engines with oil	66
E175	Clean aircraft windshields	66
E194	Inspect aircraft shock struts	65
F451	Inspect landing gear struts	65
E275	Operationally check cargo doors or ramps	65
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	64
E291	Operationally check troop doors	62
E260	Moor aircraft	62

TABLE 71

**REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY E-SHRED  
FIRST-ENLISTMENT PERSONNEL**

TASKS	PERCENT MEMBERS PERFORMING (N=38)
E297 Perform foreign object damage (FOD) walks	92
E179 Connect or disconnect external electrical aircraft power	89
E264 Operate aircraft interphones	89
E261 Open or close engine cowlings, panels, or doors	87
E194 Inspect aircraft shock struts	87
E386 Service aircraft hydraulic systems	87
E251 Launch or recover aircraft	84
E294 Perform aircraft fueling or defueling	82
E188 Inspect access doors, hatches, or panels	82
E304 Perform wing or tail walker procedures during aircraft towing	82
E389 Service aircraft tires	82
E224 Inspect overwing fairings	82
E220 Inspect magnetic chip detectors	82
E257 Lubricate aircraft components	82
E180 Connect or disconnect hydraulic test stands to or from aircraft	82
E394 Service engines with oil	79
E189 Inspect accessory drive gearboxes (ADGs)	79
E190 Inspect aircraft for corrosion	79
E295 Perform brake rider procedures during aircraft towing	76
E388 Service aircraft nitrogen systems	76
E392 Service engine CSDs or IDGs	76
E269 Operate weapons bay doors	76
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	76
E250 Jack or level aircraft	76
E307 Position fire extinguishers	74
E195 Inspect aircraft windows or windshields	74
E320 Remove or install aircraft hardware, such as screws or fasteners	71
F451 Inspect landing gear struts	71
E245 Inspect weapons bay doors	71
K789 Inspect external aircraft lights	71

TABLE 72

**REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY F-SHRED  
FIRST-ENLISTMENT PERSONNEL**

TASKS	PERCENT MEMBERS PERFORMING (N=36)
E261 Open or close engine cowlings, panels, or doors	92
E179 Connect or disconnect external electrical aircraft power	92
E297 Perform foreign object damage (FOD) walks	92
E307 Position fire extinguishers	92
E304 Perform wing or tail walker procedures during aircraft towing	86
E251 Launch or recover aircraft	86
K789 Inspect external aircraft lights	86
E161 Adjust engine cowlings, panel, or door latches	83
L835 Inspect engine cowlings, panel, or door latches	83
E394 Service engines with oil	83
E175 Clean aircraft windshields	83
E264 Operate aircraft interphones	81
E389 Service aircraft tires	81
E386 Service aircraft hydraulic systems	81
G565 Remove or install drag chutes	81
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	81
E320 Remove or install aircraft hardware, such as screws or fasteners	78
E194 Inspect aircraft shock struts	78
E257 Lubricate aircraft components	78
L860 Remove or install engine cowlings, panels, or doors	78
K792 Inspect internal aircraft lights, other than emergency lights	78
E176 Clean interior of aircraft	78
E195 Inspect aircraft windows or windshields	75
E294 Perform aircraft fueling or defueling	75
L836 Inspect engine cowlings, panels, or doors	75
E295 Perform brake rider procedures during aircraft towing	75

TABLE 73

REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY G-SHRED  
FIRST-ENLISTMENT PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=98)
E179 Connect or disconnect external electrical aircraft power	95
E297 Perform foreign object damage (FOD) walks	92
E261 Open or close engine cowlings, panels, or doors	91
E175 Clean aircraft windshields	87
E304 Perform wing or tail walker procedures during aircraft towing	86
E176 Clean interior of aircraft	84
E264 Operate aircraft interphones	83
E294 Perform aircraft fueling or defueling	83
E295 Perform brake rider procedures during aircraft towing	83
E194 Inspect aircraft shock struts	83
E251 Launch or recover aircraft	81
E394 Service engines with oil	81
E389 Service aircraft tires	81
E307 Position fire extinguishers	80
E195 Inspect aircraft windows or windshields	79
E386 Service aircraft hydraulic systems	79
E267 Operate landing gear or wheel well doors	79
E320 Remove or install aircraft hardware, such as screws or fasteners	78
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	77
E227 Inspect portable fire extinguishers	77
E188 Inspect access doors, hatches, or panels	76
E257 Lubricate aircraft components	74
K805 Remove or install aircraft batteries	74
K789 Inspect external aircraft lights	73
F425 Inspect aircraft wheel and tire assemblies	70
E391 Service crew or passenger comfort facilities, such as latrines or galleys	69
E201 Inspect blow-out doors	69
F471 Remove or install aircraft brake assemblies or brake system	69

TABLE 74

**REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY H-SHRED  
FIRST-ENLISTMENT PERSONNEL**

TASKS	PERCENT MEMBERS PERFORMING (N=110)
E297 Perform foreign object damage (FOD) walks	84
E179 Connect or disconnect external electrical aircraft power	83
E294 Perform aircraft fueling or defueling	80
E175 Clean aircraft windshields	80
E261 Open or close engine cowlings, panels, or doors	80
E176 Clean interior of aircraft	79
E251 Launch or recover aircraft	79
E392 Service engine CSDs or IDGs	79
E394 Service engines with oil	79
E194 Inspect aircraft shock struts	79
E264 Operate aircraft interphones	78
E389 Service aircraft tires	78
E257 Lubricate aircraft components	75
E267 Operate landing gear or wheel well doors	75
E295 Perform brake rider procedures during aircraft towing	75
E304 Perform wing or tail walker procedures during aircraft towing	74
E396 Service gaseous oxygen systems	74
E227 Inspect portable fire extinguishers	74
E265 Operate aircraft radios	74
E195 Inspect aircraft windows or windshields	73
K789 Inspect external aircraft lights	73
E190 Inspect aircraft for corrosion	72
F425 Inspect aircraft wheel and tire assemblies	72
E400 Take engine oil samples for analysis, such as joint oil analysis program (JOAP)	72
E307 Position fire extinguishers	71
J759 Inspect aircraft for fuel leaks	70
E320 Remove or install aircraft hardware, such as screws or fasteners	69
E183 Dispose of hazardous materials	69
E230 Inspect radomes	69

TABLE 75

**REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY J-SHRED  
FIRST-ENLISTMENT PERSONNEL**

TASKS	PERCENT MEMBERS PERFORMING (N=202)	
E297	Perform foreign object damage (FOD) walks	77
E179	Connect or disconnect external electrical aircraft power	74
E304	Perform wing or tail walker procedures during aircraft towing	70
E257	Lubricate aircraft components	67
E264	Operate aircraft interphones	67
E250	Jack or level aircraft	66
E320	Remove or install aircraft hardware, such as screws or fasteners	65
E261	Open or close engine cowlings, panels, or doors	65
E389	Service aircraft tires	65
E188	Inspect access doors, hatches, or panels	64
E194	Inspect aircraft shock struts	64
E295	Perform brake rider procedures during aircraft towing	64
E294	Perform aircraft fueling or defueling	62
E190	Inspect aircraft for corrosion	62
E176	Clean interior of aircraft	60
O932	Clear Red-Diagonal conditions	60
E195	Inspect aircraft windows or windshields	60
E204	Inspect cargo door or ramp mechanical components	60
O931	Clear Red-Dash conditions	59
E251	Launch or recover aircraft	59
E307	Position fire extinguishers	59
F425	Inspect aircraft wheel and tire assemblies	59
E387	Service aircraft LOX systems	59
E262	Open or close radomes	58
E175	Clean aircraft windshields	57
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	56
K789	Inspect external aircraft lights	56
E265	Operate aircraft radios	55
E230	Inspect radomes	55
F451	Inspect landing gear struts	55
E275	Operationally check cargo doors or ramps	54

TABLE 76

REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY K-SHRED  
FIRST-ENLISTMENT PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=69)
E297 Perform foreign object damage (FOD) walks	97
E179 Connect or disconnect external electrical aircraft power	96
E264 Operate aircraft interphones	90
E188 Inspect access doors, hatches, or panels	90
O931 Clear Red-Dash conditions	88
E261 Open or close engine cowlings, panels, or doors	87
O932 Clear Red-Diagonal conditions	87
E194 Inspect aircraft shock struts	87
E304 Perform wing or tail walker procedures during aircraft towing	84
E257 Lubricate aircraft components	84
E195 Inspect aircraft windows or windshields	84
F425 Inspect aircraft wheel and tire assemblies	84
E295 Perform brake rider procedures during aircraft towing	83
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	80
E175 Clean aircraft windshields	80
E320 Remove or install aircraft hardware, such as screws or fasteners	78
E176 Clean interior of aircraft	78
E190 Inspect aircraft for corrosion	78
E307 Position fire extinguishers	78
E250 Jack or level aircraft	78
E262 Open or close radomes	78
E321 Remove or install aircraft protective coverings, such as intake plugs	77
K789 Inspect external aircraft lights	77
E251 Launch or recover aircraft	75
E294 Perform aircraft fueling or defueling	75
E394 Service engines with oil	75
E386 Service aircraft hydraulic systems	75

TABLE 77

**REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY L-SHRED  
FIRST-ENLISTMENT PERSONNEL**

TASKS	PERCENT MEMBERS PERFORMING (N=64)
E264 Operate aircraft interphones	86
E179 Connect or disconnect external electrical aircraft power	84
E261 Open or close engine cowlings, panels, or doors	80
E297 Perform foreign object damage (FOD) walks	80
E257 Lubricate aircraft components	77
E194 Inspect aircraft shock struts	73
E307 Position fire extinguishers	73
E175 Clean aircraft windshields	72
E295 Perform brake rider procedures during aircraft towing	72
E304 Perform wing or tail walker procedures during aircraft towing	72
E176 Clean interior of aircraft	70
E267 Operate landing gear or wheel well doors	70
E294 Perform aircraft fueling or defueling	69
E195 Inspect aircraft windows or windshields	69
E394 Service engines with oil	69
E227 Inspect portable fire extinguishers	69
E265 Operate aircraft radios	69
E389 Service aircraft tires	69
E190 Inspect aircraft for corrosion	69
O932 Clear Red-Diagonal conditions	69
E251 Launch or recover aircraft	67
F425 Inspect aircraft wheel and tire assemblies	67
E320 Remove or install aircraft hardware, such as screws or fasteners	66
E235 Inspect seats, seatbelts, inertial reels, or shoulder harnesses	64
E386 Service aircraft hydraulic systems	64
O931 Clear Red-Dash conditions	64
E188 Inspect access doors, hatches, or panels	61
E230 Inspect radomes	61
H614 Inspect elevators	61

TABLE 78

SUPPORT EQUIPMENT USED OR OPERATED BY MORE THAN 30 PERCENT OF  
FIRST-ENLISTMENT PERSONNEL  
ACTIVE DUTY

<u>EQUIPMENT ITEMS</u>	<u>PERCENT MEMBER USING</u>
Maintenance Playform/Stand, B-1	80
Aircraft Towbar	79
Axle Jack	79
Maintenance Platform/Stand, B-40	77
Maintenance Platform/Stand, B-5	77
Ground Heater, H-1	76
Aircraft Tripod Jack	74
Floodlight Set, NF-2	72
Maintenance Platform/Stand, B-2	72
A-M32A Hobart Diesel	69
Air Compressor, MC-1A	62
Liquid Oxygen Cart	58
Hydraulic Servicing Cart	51
Tire Dolly	51
Air Compressor, MC-2A	49
Deicing Equipment	42
Maintenance Platform/Stand, C-1	41
Bobtail Jeep	38
Gaseous Oxygen Cart	38

**AIRCRAFT INSPECTIONS PERFORMED BY MORE THAN 30 PERCENT  
OF FIRST ENLISTMENT PERSONNEL**

<u>AIRCRAFT INSPECTIONS</u>	<u>PERCENT MEMBERS PERFORMING</u>
Preflight	71
Thruflight	66
Basic Postflight	60
Home Station Check	52
Acceptance	37
Preflight/Postflight	36

Training Emphasis (TE) and Task Difficulty (TD) Data

TE and TD data are secondary task factors that can help training development personnel decide which tasks to emphasize for entry-level training. These ratings, based on the judgments of senior career ladder NCOs at operational units, provide training personnel with a rank-ordering of those tasks considered important for airmen with 1-48 months TAFMS training (TE) and a measure of the relative difficulty of those tasks (TD). When combined with data on the percentages of first-enlistment personnel performing tasks, comparisons can be made to determine if training adjustments are necessary. For example, tasks receiving high ratings on both task factors (TE and TD), accompanied by moderate to high percentages performing, may warrant resident training. Those tasks receiving high task factor ratings, but low percentages performing, may be more appropriately planned for OJT programs within the career ladder. Low task factor ratings may highlight tasks best omitted from training for first-enlistment personnel. These decisions must be weighed against percentages of personnel performing the tasks, command concerns, and criticality of the tasks.

To assist training development personnel, AFOMS developed a computer program that uses these task factors and the percentage of first-enlistment personnel performing tasks to produce Automated Training Indicators (ATI). ATIs correspond to training decisions listed and defined in the Training Decision Logic Table found in Attachment 1, AETCI 36-2601, and assigned an ATI value to each task corresponding to the 18 training decisions on the table. The decision logic table and explanation of ATIs precede the listing of tasks in descending order of ATI in the Training Extracts. Training personnel should focus on tasks with an ATI of 18, which suggests these tasks should be in the entry-level course.

Table 79 displays the TE rated tasks for active duty personnel with the percentages of first-job (1-24 months TAFMS), and first-enlistment (1-48 months TAFMS), and the TD rating. As illustrated by the tasks listed, most apply to the routine maintenance of servicing an aircraft, such as launching or recovering an aircraft, fueling or defueling, servicing aircraft tires, and connecting or disconnecting external electrical aircraft power.

TABLE 79

## AFSC 2A5X1 TASKS WITH HIGHEST TRAINING EMPHASIS RATINGS

TASK	TNG EMP	PERCENT MEMBERS PERFORMING		TSK DIF
		1ST JOB	1ST ENL	
E251 Launch or recover aircraft	7.26	73	70	4.63
E294 Perform aircraft fueling or defueling	7.25	77	73	5.08
E389 Service aircraft tires	6.93	78	74	3.42
E179 Connect or disconnect external electrical aircraft power	6.88	88	84	3.15
E386 Service aircraft hydraulic systems	6.65	73	67	3.63
E257 Lubricate aircraft components	6.62	78	75	4.26
E394 Service engines with oil	6.56	74	69	2.91
E295 Perform brake rider procedures during aircraft towing	6.56	69	70	3.51
F497 Remove or install wheel and tire assemblies	6.47	50	51	5.28
E304 Perform wing or tail walker procedures during aircraft towing	6.41	84	78	2.76
E261 Open or close engine cowlings, panels, or doors	6.35	84	79	3.36
E188 Inspect access doors, hatches, or panels	6.28	71	70	3.58
F425 Inspect aircraft wheel and tire assemblies	6.27	71	69	4.56
E264 Operate aircraft interphones	6.23	84	80	2.77
E387 Service aircraft LOX systems	6.18	56	52	4.70
J778 Transfer fuel within aircraft	6.17	55	56	4.80
K805 Remove or install aircraft batteries	6.16	63	61	3.97
I742 Service hydraulic system reservoirs	6.14	44	45	3.49
O932 Clear Red-Diagonal conditions	6.13	63	64	4.09
F471 Remove or install aircraft brake assemblies or brake system components	6.13	56	55	5.65
J759 Inspect aircraft for fuel leaks	6.10	53	53	4.18
I738 Service aircraft accumulators	6.09	47	50	4.03
E190 Inspect aircraft for corrosion	6.03	69	68	4.69
E195 Inspect aircraft windows or windshields	6.02	71	69	4.06
O931 Clear Red-Dash conditions	6.00	60	62	4.24
O946 Review aircraft flight or maintenance records, such as AF Form 781 series	5.98	41	43	4.65

TE MEAN = 2.52; SD = 1.42 (High TE = 3.94)

TD MEAN = 5.00; SD = 1.00

Table 80 displays the TD rated tasks for active duty personnel with the percentage of highest TD ratings, first-job, first-enlistment, 3-skill level, 5-skill level, and 7-skill level personnel. As one would expect, tasks rated with the highest TD ratings reflect a low percent of members performing for the first job, getting slightly higher in the first-enlistment group, and a much higher percentage for members performing in the 5-skill level group.

Additional information on the various groups (such as jobs, clusters, and DAFSC) with the associated TE, TD, and ATI ratings are displayed in the TRAINING EXTRACTs, and should be reviewed in detail by operational training school personnel. For more detailed explanation of TE and TD ratings, see Task Factor Administration in the **SURVEY METHODOLOGY** section of this report.

### Specialty Training Standard (STS) Analysis

A comprehensive review of the 14 STSs for AFSC 2A531X, dated January 1997, was made by comparing survey data to STS elements for each STS. Operational training personnel from Sheppard AFB TX, and SMEs from Charleston AFB SC, Scott AFB IL, Little Rock AFB AR, and McChord AFB WA, matched JI tasks to appropriate STS sections and subsections. Task knowledge, performance elements, and dashed/"-" items of the STSs were compared against the standards set forth in AETCI 36-2601, dated 5 July 1996. Typically, STS sections and subsections matched to tasks which have sufficiently high TE and TD ratings, and are performed by at least 20 percent of personnel in appropriate experience or skill-level groups, (such as first-enlistment (1-48 months TAFMS) and 3- and 5-skill level groups) are considered to be supported and should be considered for inclusion in the STS. Likewise, paragraphs having tasks with less than 20 percent performing across all the criterion groups should be considered for deletion from the STS. Tasks not included in the STS are listed as "Not Referenced" (see Table 81) and should be reviewed for appropriateness of training.

### Overview

Overall, the 14 STSs provide a comprehensive coverage of the work performed by personnel in this career field, with survey data supporting most of the essential paragraphs or subparagraphs. The Fundamental Course (STS #1) had 19 elements requiring proficiency code review (see Table 82). The C-130 MRT Course (STS #13) has only 4 tasks not supported by OSR data (see Appendix C). The C-5 Course (STS #9) has a large number of tasks not supported by OSR data (see Appendix C). As mentioned before, the number of tasks not referenced or not supported only flags STS items for review, therefore review by experienced personnel is required. The E-3 Course (STS #11) only displays the Fundamental Course STS data, since the aircraft is not available to the operational training school and tasks are only taught to the knowledge level.

TABLE 80

## AFSC 2A5X1 TASKS WITH HIGHEST TASK DIFFICULTY RATINGS

<u>TASKS</u>	<u>TSK DIF</u>	<u>1ST JOB</u>	<u>1ST ENL</u>	<u>3X LVL</u>	<u>5X LVL</u>	<u>7X LVL</u>
L875 Remove or install engines	8.08	13	16	15	20	11
E253 Lift aircraft by air bags	8.70	4	4	4	6	4
F491 Remove or install landing gear struts	7.55	10	14	12	19	11
E412 Weigh aircraft	7.48	3	5	4	8	6
E343 Remove or install explosive seats	7.47	1	1	1	1	0
H657 Remove or install rudders	7.29	5	7	6	12	7
A66 Plan deployments of equipment or personnel	7.25	1	2	1	4	18
L884 Troubleshoot engine malfunctions	7.24	2	5	2	18	13
F492 Remove or install landing gear trucks, torque struts, or bogies	7.23	7	9	8	14	9
E341 Remove or install engine struts	7.20	2	3	3	3	2
L854 Operationally check engines	7.14	5	9	5	33	24
A41 Evaluate budget requirements	7.12	1	2	1	3	13
H598 Adjust elevons or elevon system components	7.08	1	1	0	2	2
H601 Adjust leading edge slat or leading edge flap system components	7.08	3	5	4	7	5
B90 Develop formal course curricula, plans of instructions, (POIs), or specialty training standards	7.06	1	2	1	5	10
H606 Adjust spoilers or spoiler system components	7.06	4	6	4	10	7
E340 Remove or install engine pylons	7.05	5	7	7	6	3
H667 Remove or install wing flap gearboxes or wing flap actuators	7.03	3	6	4	11	8
H607 Adjust trailing edge flaps or trailing edge flap system components	7.03	5	6	5	11	8
H595 Adjust autospoiler quadrant components	7.02	1	2	2	3	2
L878 Remove or install propellers or propeller system components	7.02	3	3	3	6	3
L856 Perform engine removal or installation preparations	7.01	10	14	12	21	12
L888 Troubleshoot propeller synchrophaser systems	7.00	1	1	1	3	2
H608 Check flight control surface travel, using protractors	7.00	7	8	7	14	10
H602 Adjust pitch, roll, or yaw trim	6.99	4	5	4	8	6

TD MEAN = 5.00; SD = 1.00

TE MEAN = 2.52; SD = 1.42 (High TE = 3.94)

TABLE 81

EXAMPLE OF TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE OF ACTIVE DUTY  
AFSC 2A531X PERSONNEL AND NOT REFERENCED TO THE STS  
(FUNDAMENTAL COURSE)

TASK NBR	TASK NOT REFERENCED	PERCENT MEMBERS PERFORMING							TNG EMP	TSK DIF	ATI
		31X LVL	1-18 MOS	1ST JOB	1ST ENL						
E251	Launch or recover aircraft	73	73	73	70	7.26		4.63	18		
E179	Connect or disconnect external electrical aircraft power	86	88	88	84	6.88		3.15	18		
E295	Perform brake rider procedures during aircraft towing	70	66	69	70	6.56		3.51	18		
E304	Perform wing or tail walker procedures during aircraft towing	79	84	84	78	6.41		2.76	18		
E261	Open or close engine cowlings, panels, or doors	81	85	84	79	6.35		3.36	18		
F425	Inspect aircraft wheel and tire assemblies	69	71	71	69	6.27		4.56	18		
E264	Operate aircraft interphones	81	84	84	80	6.23		2.77	18		
E387	Service aircraft LOX systems	55	61	56	52	6.18		4.70	18		
K805	Remove or install aircraft batteries	62	61	63	61	6.16		3.97	18		
E250	Jack or level aircraft	67	65	65	67	5.76		6.38	18		
E265	Operate aircraft radios	58	59	59	58	5.70		3.72	18		
E369	Remove or install safety devices, such as seat pins or gear locks	49	45	46	50	5.63		2.91	18		
E381	Remove snow or ice from aircraft	39	25	31	39	5.94		4.32	15		
F451	Inspect landing gear struts	64	62	64	63	5.94		4.50	18		
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	59	56	58	59	5.56		3.22.	18		

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE 82

EXAMPLES OF STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP  
(*FUNDAMENTAL COURSE*)

STS REFERENCE/TASKS	PERCENT MEMBERS PERFORMING							
	3-LVL							
	COURSE	PROF	31X	1-18M	1ST	TNG	TSK	ATI
	CODE	LVL			JOB	EMP	DIF	
A.2.3.5. Hazardous Chemicals	-							
E183 Dispose of hazardous materials		53	54	55	52	5.48	5.03	18
E259 Maintain security of hazardous materials, such as oil, rags, or grease		39	42	40	38	5.25	3.77	***
A.2.11.5.4 Lubricate aircraft	-							
E257 Lubricate aircraft components		76	78	78	75	6.62	4.26	18
A.2.11.9. Perform inclement/ cold weather procedures	-							
E292 Perform aircraft cold weather procedures		30	15	24	30	4.94	4.78	***
A.2.17.7.4. Engine cowlings	-							
L859 Remove or install engine cowlings, panel, or door latches		36	31	33	37	5.42	4.86	12
L860 Remove or install engine cowlings, panel, or doors		36	32	32	36	5.35	4.84	12
A.2.3.5.2 Hazardous Chemicals-Disposal	A							
E183 Dispose of hazardous materials		53	54	55	52	5.48	5.03	18
E300 Perform hazardous waste clean up procedures, other than aircraft fuel		37	37	37	36	4.75	4.57	15

\*\*\* No ATI rating

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

*Caution, the following chart is not a judgment on the value of the STS but rather, simply a display of STS paragraphs with tasks matched. This display should provide you with a "big picture" of each STS. As stated previously, more detailed analysis and information is provided in the Aerospace Maintenance Extracts.*

#### TECHNICAL TASKS SUGGESTED FOR TRAINING EVALUATION REVIEW

STS Number	Aircraft	Shred	Number of Tasks where proficiency code does not match OSR data (over 20 percent PMP)	Number of Tasks Not Reference (over 20 percent PMP)
STS #1	Fundamentals	All 3 Skill Level	19	85
STS #2	B-1B	2A531E	22	49
STS #3	B-2	2A531E	13	61
STS #4	B-52	2A531F	8	51
STS #5	C-130 (see STS 13)	2A531B	5	82
STS #6	C-135	2A531G	0	75
STS #7	C-141 (see STS 14)	2A531A	23	66
STS #8	C-17	2A531D	8	143
STS #9	C-5	2A531C	35	94
STS #10	C-9	2A531A	21	81
STS #11	E-3	2A531G	+	+
STS #12	KC-10/E-4	2A531H	7	61
STS #13	MRT C-130	2A531B	4	*
STS #14	MRT C-141	2A531A	13	*

+ Due to lack of aircraft availability, operational training school training is limited to knowledge level training

\* Not applicable, MRT courses focused on combat ready tasks

#### Computer Listing of STSs

Detailed information on each shred within the Aerospace Maintenance is available upon request (see **PREFACE**). A complete computer listing of this data has been mailed to the operational training school for review and evaluation. This information is available in the specific training extract associated to the corresponding AFSC shred.

Each training extract contains: (1) a comprehensive display of the Fundamental Course (STS #1) matched with percent members performing for the following groups: first enlistment, percent members performing for each of the 11 shreds, and TE, TD, and ATI ratings per task (an example of this product is displayed in Table 83); and (2) a product displaying data *specifically* associated to the particular shred. This printout displays the following information: percent members performing, 18 months TAFMS, first-job, first-enlistment, TE, TD, and ATI ratings per task.

The number of different STS computer products provided in each Aerospace Maintenance Training Extract varies according to the aircrafts associated to each shred and if the shred has an additional MRT course (see Table 84). For example, the active duty AFSC 2A531A Training Extract contains 4 different STS matches: STS #1 Fundamental Course data, STS #7 associated to the C-141, STS #10 covering the C-9, and STS #14 covering the MRT course for the C-141.

The personnel in this career field are responsible for maintaining a wide variety of aircraft and systems. Therefore, training personnel should review and evaluate each STS for possible fine-tuning of content and proficiency codes, realizing that any changes made in common sections could affect all STS shreds. This review will help ensure that tasks associated to general maintenance, as well as to maintenance of a particular aircraft, are accurately and effectively trained.

## **JOB SATISFACTION ANALYSIS**

An examination of job satisfaction indicators can give career ladder managers a better understanding of factors that may affect the job performance of career ladder airmen. Therefore, the survey booklet included attitude questions covering job interest, perceived utilization of talents and training, sense of accomplishment from work, and reenlistment intentions. The responses of the current survey sample were analyzed by making several comparisons: (1) among active duty TAFMS groups of the AFSC career ladder and a comparative sample of personnel from other Mission Equipment Management Group AFSCs surveyed in 1997, (2) between current and previous survey active duty TAFMS groups, and (3) across specialty groups identified in the **SPECIALTY JOBS** section of the report. Table 85 displays job satisfaction ratings for the three Air Force components.

## **ACTIVE DUTY JOB SATISFACTION**

Table 86 compares active duty first-enlistment (1-48 months TAFMS), second-enlistment (49-96 months TAFMS), and career (97+ months TAFMS) group data to corresponding enlistment groups from other Mission Equipment Management Group AFSCs surveyed in 1997. These data give a relative measure of how the job satisfaction of AFSC 2A5X1X personnel

TABLE 83

EXAMPLES OF STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP  
(*FUNDAMENTAL COURSE*)

STS REFERENCE/TASKS	PROF CODE	1EL 31X	AD 31X	PERCENT MEMBERS PERFORMING										TNG EMP	TSK DIF	ATI
				2A5 31A	2A5 31B	2A5 31C	2A5 31D	2A5 31E	2A5 31F	2A5 31G	2A5 31H					
A2.8.5 Use GO-81	-	45	42	38	46	30	39	63	53	49	40	5.55	4.36	12		
O928 Access core automated maintenance systems (CAMS) or GO-81		10	10	4	9	7	9	3	8	15	16	2.80	4.90	**		
O948 Update historical reports in CAMS or GO-81		20	20	17	19	16	30	15	25	30	16	4.55	4.66	7		
O949 Update maintenance data collection (MDC) data in CAMS or GO-81																
A2.11.3 Inventory aircraft equipment	-	40	40	45	34	43	43	40	33	38	45	4.72	3.59	15		
D145 Inventory equipment, tools, parts, or supplies																
A2.11.5.4 Lubricate aircraft	-	75	76	74	79	79	76	78	78	74	75	6.62	4.26	18		
E257 Lubricate aircraft components																
A2.12.4.5. Remove/install/open/close/ inspect flight station windows/windshields	-	69	70	62	71	63	71	70	75	77	73	6.02	4.06	18		
E195 Inspect aircraft windows/ windshields																

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE =3.94)  
Average TD = 5.00, Standard Deviation =1.00 (High TD =6.00)

TABLE 84

STS MATCHES FOR FUNDAMENTALS AND 3-SKILL LEVEL COURSES  
AEROSPACE MAINTENANCE  
AFSC 2A5X1

STS NUMBER	AIRCRAFT SPECIFIC COURSE	SHREDS ASSOCIATED TO AIRCRAFTS	BASE STS MATCHES COMPLETED	ADDITIONAL MRT COURSE
STS #1	Fundamentals	2A5X1X	Sheppard AFB TX	
STS #2	B-1B	2A5X1E	Sheppard AFB TX	
STS #3	B-2	2A5X1E	Sheppard AFB TX	
STS #4	B-52	2A5X1F	Sheppard AFB TX	
STS #5	C-130/	2A5X1B	Sheppard AFB TX	See STS #13
STS #6	C-135	2A5X1G	Sheppard AFB TX	
STS #7	C-141	2A5X1A	Sheppard AFB TX	See STS #14
STS #8	C-17	2A5X1D	Charleston AFB SC	
STS #9	C-5	2A5X1C	Sheppard AFB TX	
STS #10	C-9	2A5X1A	Scott AFB IL.	
STS #11	E-3	2A5X1G	Sheppard AFB TX	
STS #12	KC-10/E-4	2A5X1H	Sheppard AFB TX	
STS #13	C-130 MRT Course	2A5X1B	Little Rock AFB AR.	

TABLE 85

COMPARISONS OF JOB SATISFACTION INDICATORS BY COMPONENT STATUS  
(PERCENT MEMBERS RESPONDING)

	ACTIVE DUTY (N=4,393)	AFRC (N=1,599)	ANG (N=943)
<u>EXPRESSED JOB INTEREST:</u>			
INTERESTING	72	80	87
SO-SO	18	14	9
DULL	10	6	4
<u>PERCEIVED UTILIZATION OF TALENTS:</u>			
FAIRLY WELL TO PERFECTLY	81	84	89
LITTLE OR NOT AT ALL	19	15	11
<u>PERCEIVED UTILIZATION OF TRAINING:</u>			
FAIRLY WELL TO PERFECTLY	82	89	93
LITTLE OR NOT AT ALL	18	11	8
<u>SENSE OF ACCOMPLISHMENT GAINED FROM WORK:</u>			
SATISFIED	70	76	84
NEUTRAL	13	12	8
DISSATISFIED	17	13	8
<u>REENLISTMENT INTENTIONS:</u>			
YES, OR PROBABLY YES	69	85	89
NO, OR PROBABLY NO	21	6	6
WILL RETIRE	10	9	5

NOTE: Columns may not add to 100 percent due to rounding

TABLE 86

COMPARISON OF JOB SATISFACTION INDICATORS OF ACTIVE DUTY PERSONNEL BY TAFMS GROUPS  
(PERCENT MEMBERS RESPONDING)

	1-48 MOS TAFMS		49-96 MOS TAFMS		97+ MOS TAFMS	
	1997 2A5X1 (N=1,067)	COMP SAMPLE* (N=4,506)	1997 2A5X1 (N=793)	COMP SAMPLE* (N=3,339)	1997 2A5X1 (N=2,533)	COMP SAMPLE* (N=9,548)
<u>EXPRESSED JOB INTEREST:</u>						
INTERESTING	67	75	71	74	74	78
SO-SO	20	16	18	16	17	14
DULL	14	9	11	11	8	8
<u>PERCEIVED UTILIZATION OF TALENTS:</u>						
FAIRLY WELL TO PERFECTLY	74	83	80	83	84	85
LITTLE OR NOT AT ALL	26	17	19	17	16	15
<u>PERCEIVED UTILIZATION OF TRAINING:</u>						
FAIRLY WELL TO PERFECTLY	87	89	82	84	80	82
LITTLE OR NOT AT ALL	13	11	18	16	21	18
<u>SENSE OF ACCOMPLISHMENT GAINED FROM WORK:</u>						
SATISFIED	68	73	67	72	83	74
NEUTRAL	15	14	16	13	17	11
DISSATISFIED	18	13	17	15		15
<u>REENLISTMENT INTENTIONS:</u>						
YES, OR PROBABLY YES	56	63	68	73	74	78
NO, OR PROBABLY NO	43	36	31	26	8	7
PLAN TO RETIRE	0	1	0	1	17	15

\* Comparative sample of Mission Equipment Management career ladders surveyed in 1997 (includes AFSCs 2A0X1B, Avionics Test Stations & Components F-15/F-111, AFSC 2A1X1 Avionics Sensors Maintenance, AFSC 2A1X7 Electronic Warfare Systems, AFSC 2A3X3 Tactical Aircraft Maintenance, AFSC 2A6X1A/B Aerospace Propulsion, AFSC 2A6X2 Aerospace Ground Equipment, AFSC 2E1X4 Television & Intrusion Detection Systems, AFSC 2E4X1 Space Systems, AFSC 2E5X1 Imagery Systems Maintenance, AFSC 2E6X1 Communication & Antenna Systems, AFSC 2E6X2 Communication Cable Systems, AFSC 2P0X1 Precision Measurement Equipment Laboratory)

NOTE: Columns may not add to 100 percent due to rounding

compares with similar Air Force specialties. The comparative sample of Mission Equipment Management career ladders surveyed includes: AFSC 2A0X1B (Avionics Test Stations and Components F-15/F-111), AFSC 2A1X1 (Avionics Sensors Maintenance), AFSC 2A1X7 (Electronic Warfare Systems), AFSC 2A3X3 (Tactical Aircraft Maintenance), AFSC 2A6X1A/B (Aerospace Propulsion), AFSC 2A6X2 (Aerospace Ground Equipment), AFSC 2E1X4 (Television and Intrusion Detection Systems), AFSC 2E4X1 (Space Systems), AFSC 2E5X1 (Imagery Systems Maintenance), AFSC 2E6X1 (Communication and Antenna Systems), AFSC 2E6X2 (Communication Cable Systems), and AFSC 2P0X1 (Precision Measurement Equipment Laboratory).

As displayed in Table 87, job satisfaction for the Aerospace Maintenance personnel is slightly lower than job satisfaction figures for those members of the comparative sample. The first-enlistment group tends to reflect the lowest satisfaction rate of the three TAFMS groups. As airmen gain experience in the Aerospace Maintenance career field, their job interest tends to increase across all except in the area of "Utilization of Training" in the 97+ months TAFMS group. This may be due to the fact that training at this experience level is lessened and training focuses from technical to managerial skills. Yet, in the category of "Sense Of Accomplishment Gained From Work," 83 percent of this experience group (97+ months TAFMS) replied with a sense of satisfaction, compared to the 74 percent in the corresponding component and comparative data group.

An indication of changes in job satisfaction perceptions within the AFSC 2A5X1 career ladder, since the merger of Airlift Aircraft Maintenance (AFSC 457X2), Aircraft Pneudraulic System (AFSC 454X4/A) and Strategic Aircraft Maintenance (AFSC 457X0) to the Aerospace Maintenance career ladder, is provided in Tables 88 and 89. These tables present job satisfaction ratings within TAFMS groups for 1997 survey respondents and data from the previous OSRs now making up the Aerospace Maintenance Career Ladder.

Comparison of job satisfaction indicators responses indicate that generally, the 1997 responses are slightly lower than for the previous surveys. Except in two areas, "Perceived Utilization of Talents" in the 49-96 TAFMS group and "Perceived Utilization of Training" in the 1-48 TAFMS group, where the ratings were about the same.

In addition, active duty job satisfaction data for identified jobs and clusters are displayed in Table 90. Sixteen of the identified clusters and jobs provided generally positive job satisfaction responses.

Depot Inspector personnel had the lowest rated job satisfaction ratings. They rated their job as follows: "Job Interest" 36 percent, "Utilization of Talents" 43 percent, "Utilization of Training" 36 percent, and "Sense of Accomplishment" 29 percent. However, this group had the highest percentage, indicating they plan to reenlist (93 percent). Though it may appear a problem exists, it should be noted than these four groups constitute less than 5 percent of the active duty total survey sample.

TABLE 87

COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 2A5X1 ACTIVE DUTY  
TAFMS GROUPS IN CURRENT SURVEY TO PREVIOUS SURVEYS  
*1-48 MONTHS TAFMS*

	AEROSPACE MAINT AD AFSC 2A5X1X CURRENT SURVEY (N=1,067)	AIRCRAFT MAINT PREV AFSC 457X2 JULY 1992 (N=812)	AIRCRAFT PNEUDRAULIC SYS PREV AFSC 454X4/A JUNE 1993 (N=140)	STRATEGIC AIRCRAFT MAINT PREV AFSC 457X0 JANUARY 1993 (N=683)
<u>EXPRESSED JOB INTEREST:</u>				
INTERESTING	67	77	82	77
SO-SO	20	15	11	14
DULL	14	8	7	9
<u>PERCEIVED UTILIZATION OF TALENTS:</u>				
FAIRLY WELL TO PERFECTLY	74	80	88	77
LITTLE OR NOT AT ALL	26	20	11	23
<u>PERCEIVED UTILIZATION OF TRAINING:</u>				
FAIRLY WELL TO PERFECTLY	87	85	87	93
LITTLE OR NOT AT ALL	13	15	13	7
<u>SENSE OF ACCOMPLISHMENT GAINED</u>				
<u>FROM WORK:</u>				
SATISFIED	68	**	80	75
NEUTRAL	15	**	11	11
DISSATISFIED	18	**	8	14
<u>REENLISTMENT INTENTIONS:</u>				
YES, OR PROBABLY YES	56	60	61	54
NO, OR PROBABLY NO	43	40	39	45
WILL RETIRE	0	*	0	1

\* Denotes less than 1 percent

\*\* Denotes information not available

NOTE: Columns may not add to 100 percent due to rounding

TABLE 88

COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 2A5X1 ACTIVE DUTY  
TAFMS GROUPS IN CURRENT SURVEY TO PREVIOUS SURVEYS  
49-96 MONTHS TAFMS

	AEROSPACE MAINT AD AFSC 2A5X1X CURRENT SURVEY (N=793)	AIRLIFT AIRCRAFT MAINT PREV AFSC 457X2 JULY 1992 (N=592)	AIRCRAFT PNEUDRAULIC SYS PREV. AFSC 454X4/A JUNE 1993 (N=169)	STRATEGIC AIRCRAFT MAINT PREV. AFSC 457X0 JANUARY 1993 (N=946)
<u>EXPRESSED JOB INTEREST:</u>				
INTERESTING	71	73	80	77
SO-SO	18	19	13	15
DULL	11	8	7	8
<u>PERCEIVED UTILIZATION OF TALENTS:</u>				
FAIRLY WELL TO PERFECTLY	80	80	18	80
LITTLE OR NOT AT ALL	19	20	68	20
<u>PERCEIVED UTILIZATION OF TRAINING:</u>				
FAIRLY WELL TO PERFECTLY	82	78	13	89
LITTLE OR NOT AT ALL	18	22	73	11
<u>SENSE OF ACCOMPLISHMENT GAINED</u>				
<u>FROM WORK:</u>				
SATISFIED	67	**	81	72
NEUTRAL	16	**	9	10
DISSATISFIED	17	**	10	14
<u>REENLISTMENT INTENTIONS:</u>				
YES, OR PROBABLY YES	68	70	76	70
NO, OR PROBABLY NO	31	30	23	39
WILL RETIRE	0	*	1	1

\* Denotes less than 1 percent

\*\* Denotes information not available

NOTE: Columns may not add to 100 percent due to rounding

TABLE 89

COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 2A5X1 ACTIVE DUTY  
TAFMS GROUPS IN CURRENT SURVEY TO PREVIOUS SURVEYS  
97+ MONTHS TAFMS

	AEROSPACE MAINT AD AFSC 2A5X1X CURRENT SURVEY (N=2,533)	AIRLIFT AIRCRAFT MAINT PREV AFSC 457X2 JULY 1992 (N=1,469)	AIRCRAFT PNEUDRAULIC SYS PREV AFSC 454X4/A JUNE 1993 (N=308)	STRATEGIC AIRCRAFT MAINT PREV AFSC 457X0 JANUARY 1993 (N=1,777)
<u>EXPRESSED JOB INTEREST:</u>				
INTERESTING	74	78	82	77
SO-SO	17	15	12	15
DULL	8	7	6	8
<u>PERCEIVED UTILIZATION OF TALENTS:</u>				
FAIRLY WELL TO PERFECTLY	84	85	86	79
LITTLE OR NOT AT ALL	16	15	14	21
<u>PERCEIVED UTILIZATION OF TRAINING:</u>				
FAIRLY WELL TO PERFECTLY	80	81	86	83
LITTLE OR NOT AT ALL	21	19	14	17
<u>SENSE OF ACCOMPLISHMENT GAINED FROM WORK:</u>				
SATISFIED	83	**	79	74
NEUTRAL	17	**	12	11
DISSATISFIED		**	9	15
<u>REENLISTMENT INTENTIONS:</u>				
YES, OR PROBABLY YES	74	76	78	75
NO, OR PROBABLY NO	8	7	12	6
WILL RETIRE	17	17	10	19

\* Denotes less than 1 percent

\*\* Denotes information not available

NOTE: Columns may not add to 100 percent due to rounding

TABLE 90

COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS  
**ACTIVE DUTY**  
 (PERCENT MEMBERS RESPONDING)

	TRANSIENT ALERT (STG485) (N=17)	FLIGHT LINE MAINT (STG344) (N=100)	ISOCHRONAL INSPECTOR (STG493) (N=10)	PHASE INSPECTOR (STG714) (N=15)	DOCK INSPECTOR (STG330) (N=116)
<u>EXPRESSED JOB INTEREST:</u>					
INTERESTING	71	65	40	80	68
SO-SO	18	25	40	7	24
DULL	12	10	20	13	8
<u>PERCEIVED UTILIZATION OF TALENTS:</u>					
FAIRLY WELL TO PERFECTLY	71	70	80	86	79
LITTLE OR NOT AT ALL	29	30	20	13	21
<u>PERCEIVED UTILIZATION OF TRAINING:</u>					
FAIRLY WELL TO PERFECTLY	65	89	80	80	92
LITTLE OR NOT AT ALL	35	11	20	13	8
OTHER	0	0	0	7	0
<u>SENSE OF ACCOMPLISHMENT GAINED FROM WORK:</u>					
SATISFIED	71	71	50	73	72
NEUTRAL	12	15	50	13	12
DISSATISFIED	18	14	0	7	16
OTHER	0	0	0	7	0
<u>REENLISTMENT INTENTIONS:</u>					
YES, OR PROBABLY YES	76	56	70	67	70
NO, OR PROBABLY NO	12	40	30	27	26
WILL RETIRE	12	4	0	0	3
OTHER	0	0	0	7	1

NOTE: Columns may not add to 100 percent due to rounding

TABLE 90 (CONTINUED)

COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS  
**ACTIVE DUTY**  
 (PERCENT MEMBERS RESPONDING)

	CREW CHIEF (STG525) (N=2,012)	DEPOT INSPECTOR (STG427) (N=14)	QUALITY ASSURANCE (STG511) (N=56)	FTD INSTRUCTOR (STG576) (N=31)	OJT INSTRUCTOR (STG482) (N=10)
<u>EXPRESSED JOB INTEREST:</u>					
INTERESTING	75	36	86	94	70
SO-SO	17	7	13	3	20
DULL	8	57	2	3	10
<u>PERCEIVED UTILIZATION OF TALENTS:</u>					
FAIRLY WELL TO PERFECTLY	84	43	91	97	70
LITTLE OR NOT AT ALL	16	57	9	3	30
<u>PERCEIVED UTILIZATION OF TRAINING:</u>					
FAIRLY WELL TO PERFECTLY	92	36	93	90	70
LITTLE OR NOT AT ALL	8	64	7	10	30
<u>SENSE OF ACCOMPLISHMENT GAINED FROM WORK:</u>					
SATISFIED	73	29	82	84	60
NEUTRAL	12	7	7	3	10
DISSATISFIED	15	64	11	13	13
<u>REENLISTMENT INTENTIONS:</u>					
YES, OR PROBABLY YES	71	93	75	87	80
NO, OR PROBABLY NO	24	7	5	3	20
WILL RETIRE	4	0	20	6	0
OTHER	0	0	0	3	0

NOTE: Columns may not add to 100 percent due to rounding

TABLE 90 (CONTINUED)

COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS  
ACTIVE DUTY  
(PERCENT MEMBERS RESPONDING)

	AERO REPAIR (STG362) (N=225)	-21 AME SUPPORT (STG206) (N=95)	EQUIPMENT MGT (STG120) (N=205)	FLIGHT LINE EXPEDITER (STG486) (N=129)	MAINT CONTROL (STG504) (N=39)
<u>EXPRESSED JOB INTEREST:</u>					
INTERESTING	78	52	49	80	74
SO-SO	14	29	26	13	23
DULL	8	19	24	7	3
<u>PERCEIVED UTILIZATION OF TALENTS:</u>					
FAIRLY WELL TO PERFECTLY	89	70	62	88	88
LITTLE OR NOT AT ALL	11	29	39	12	13
<u>PERCEIVED UTILIZATION OF TRAINING:</u>					
FAIRLY WELL TO PERFECTLY	97	66	50	88	74
LITTLE OR NOT AT ALL	12	34	50	12	26
<u>SENSE OF ACCOMPLISHMENT GAINED FROM WORK:</u>					
SATISFIED	76	53	54	79	69
NEUTRAL	12	17	20	5	3
DISSATISFIED	11	28	27	16	28
OTHER	0	2	0	0	0
<u>REENLISTMENT INTENTIONS:</u>					
YES, OR PROBABLY YES	73	66	65	67	79
NO, OR PROBABLY NO	19	28	26	2	8
WILL RETIRE	6	4	9	30	13
OTHER	2	1	0	0	0

NOTE: Columns may not add to 100 percent due to rounding

TABLE 90 (CONTINUED)

COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS  
 ACTIVE DUTY  
 (PERCENT MEMBERS RESPONDING)

	SUPERVISOR (STG248) (N=417)	CAMS (STG520) (N=98)	TRAINING (STG379) (N=73)	MOBILITY (STG512) (N=40)	TO (STG546) (N=26)
<u>EXPRESSED JOB INTEREST:</u>					
INTERESTING	80	67	82	85	38
SO-SO	13	19	11	13	23
DULL	6	13	7	3	38
<u>PERCEIVED UTILIZATION OF TALENTS:</u>					
FAIRLY WELL TO PERFECTLY	89	78	90	90	50
LITTLE OR NOT AT ALL	11	21	10	10	50
<u>PERCEIVED UTILIZATION OF TRAINING:</u>					
FAIRLY WELL TO PERFECTLY	76	58	81	56	46
LITTLE OR NOT AT ALL	24	42	19	45	54
<u>SENSE OF ACCOMPLISHMENT GAINED FROM WORK:</u>					
SATISFIED	75	62	84	83	50
NEUTRAL	12	15	1	5	23
DISSATISFIED	13	22	15	10	27
OTHER	0	0	0	3	0
<u>REENLISTMENT INTENTIONS:</u>					
YES, OR PROBABLY YES	66	65	79	65	58
NO, OR PROBABLY NO	6	20	10	8	23
WILL RETIRE	27	13	11	25	19
OTHER	1	1	0	3	0

NOTE: Columns may not add to 100 percent due to rounding

The FTD Instructor and QA Evaluator jobs had the highest job satisfaction ratings. Airmen in these two groups are experienced personnel holding either a 5- or 7-skill level, with no first-enlistment airmen in these jobs. Overall, job satisfaction indicators for the active duty Aerospace Maintenance are average for the career field, but lower than their ANG and AFRC counterparts (see Tables 90 and 92).

### **AFRC JOB SATISFACTION**

Responses to job interest, perceived use of talents and training, and sense of accomplishment are average for AFRC personnel. As with the active duty personnel, review of the job satisfaction data for personnel in the specialty jobs identified in this survey reveals that the jobs people in this career ladder are performing have a high impact on how they perceive their level of satisfaction.

The specialty groups with the highest rated job satisfaction are Maintenance Control Job and Training Cluster. Maintenance Control personnel rated 3 out of the 4 satisfaction indicators with 100 percent satisfied.

The Isochronal Inspector, Phase Inspector, and Dock Inspector had the lowest job satisfaction rating for the Reserves specialty jobs. These three groups constitute 4 percent of the AFRC survey sample. Each of these groups rated "Expressed Job Interest" with moderately low satisfaction rating (57 percent, 63 percent, and 63 percent, respectively). "Sense of Accomplishment Gained From Work" was rated average to low (71 percent, 63 percent, and 73 percent, respectively). The other three satisfaction indicators were average for the career field. Both the Isochronal Inspector and Phase Inspector jobs are manned by mostly 5-skill level personnel, along with a few 7-skill level personnel. The Dock Inspector Cluster is manned primarily by 3- or 5-skill level airmen.

Reserve data reflects a medium to high rating for "Reenlistment Intentions" and "Perceived Utilization Of Talents." Job Satisfaction ratings for the specialty jobs are displayed in Table 91. Overall, satisfaction indicators for the AFRC are average to high, with strong reenlistment intentions.

### **ANG JOB SATISFACTION**

ANG job satisfaction indicators suggest that members of this group have the highest job satisfaction rating than for the Air Force Active Duty and the ANG counterparts. As a whole, guardsmen rated the five satisfaction questions with the higher rating (see Table 92). Their highest rated area was "Perceived Utilization of Training" rated at 93 percent, 4 percent higher

TABLE 91

COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS  
(PERCENT MEMBERS RESPONDING)  
**AIR FORCE RESERVES**

	FLIGHTLINE MAINTENANCE (N=57)	ISOCHRONAL INSPECTOR (N=7)	PHASE INSPECTOR (N=8)	DOCK INSPECTOR (N=52)
<u>EXPRESSED JOB INTEREST:</u>				
INTERESTING	82	57	63	63
SO-SO	14	43	13	29
DULL	4	0	25	8
<u>PERCEIVED UTILIZATION OF TALENTS:</u>				
FAIRLY WELL TO PERFECTLY	78	86	88	75
LITTLE OR NOT AT ALL	23	14	13	25
<u>PERCEIVED UTILIZATION OF TRAINING:</u>				
FAIRLY WELL TO PERFECTLY	88	86	75	75
LITTLE OR NOT AT ALL	12	14	25	25
<u>SENSE OF ACCOMPLISHMENT GAINED FROM WORK:</u>				
SATISFIED	63	71	63	73
NEUTRAL	19	29	0	17
DISSATISFIED	18	0	38	10
<u>REENLISTMENT INTENTIONS:</u>				
YES, OR PROBABLY YES	84	71	88	81
NO, OR PROBABLY NO	9	29	0	10
WILL RETIRE	7	0	13	10

NOTE: Columns may not total 100 percent due to rounding

TABLE 91 (CONTINUED)

COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS  
(PERCENT MEMBERS RESPONDING)  
**AIR FORCE RESERVES**

	CREW CHIEF (N=958)	QA EVALUATOR (N=17)	AERO REPAIR (N=143)	-21 AFE SUPPORT (N=57)
<u>EXPRESSED JOB INTEREST:</u>				
INTERESTING	82	88	80	63
SO-SO	12	12	13	30
DULL	5	0	6	7
<u>PERCEIVED UTILIZATION OF TALENTS:</u>				
FAIRLY WELL TO PERFECTLY	86	100	85	81
LITTLE OR NOT AT ALL	14	0	15	19
<u>PERCEIVED UTILIZATION OF TRAINING:</u>				
FAIRLY WELL TO PERFECTLY	90	100	92	91
LITTLE OR NOT AT ALL	10	0	8	9
<u>SENSE OF ACCOMPLISHMENT GAINED FROM WORK:</u>				
SATISFIED	77	88	78	70
NEUTRAL	11	6	10	19
DISSATISFIED	12	6	12	11
<u>REENLISTMENT INTENTIONS:</u>				
YES, OR PROBABLY YES	87	88	87	75
NO, OR PROBABLY NO	6	0	3	7
WILL RETIRE	7	12	10	18

NOTE: Columns may not total 100 percent due to rounding

TABLE 91 (CONTINUED)

COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS  
(PERCENT MEMBERS RESPONDING)  
AIR FORCE RESERVES

	FLIGHTLINE EXPEDITER (N=17)	MAINTENANCE CONTROL (N=5)	SUPERVISOR (N=58)	CAMS (N=18)	TRAINING (N=5)
<u>EXPRESSED JOB INTEREST:</u>					
INTERESTING	94	100	86	72	100
SO-SO	6	0	9	22	0
DULL	0	0	5	6	0
<u>PERCEIVED UTILIZATION OF TALENTS:</u>					
FAIRLY WELL TO PERFECTLY	100	100	92	95	100
LITTLE OR NOT AT ALL	0	0	9	6	0
<u>PERCEIVED UTILIZATION OF TRAINING:</u>					
FAIRLY WELL TO PERFECTLY	100	100	86	89	100
LITTLE OR NOT AT ALL	0	0	14	11	0
<u>SENSE OF ACCOMPLISHMENT GAINED FROM WORK:</u>					
SATISFIED	94	60	76	78	100
NEUTRAL	6	40	10	6	0
DISSATISFIED	0	0	14	17	0
<u>REENLISTMENT INTENTIONS:</u>					
YES, OR PROBABLY YES	76	100	76	89	80
NO, OR PROBABLY NO	12	0	2	0	0
WILL RETIRE	12	0	22	11	20

NOTE: Columns may not total 100 percent due to rounding

TABLE 92

COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS  
(PERCENT MEMBERS RESPONDING)  
**AIR NATIONAL GUARD**

	FLIGHTLINE MAINTENANCE (N=36)	DOCK INSPECTOR (N=25)	CREW CHIEF (N=645)	QUALITY ASSURANCE (N=15)	AERO REPAIR (N=69)
<u>EXPRESSED JOB INTEREST:</u>					
INTERESTING	89	76	89	100	78
SO-SO	8	16	7	0	16
DULL	3	8	4	0	6
<u>PERCEIVED UTILIZATION OF TALENTS:</u>					
FAIRLY WELL TO PERFECTLY	81	88	90	100	91
LITTLE OR NOT AT ALL	19	12	10	0	9
<u>PERCEIVED UTILIZATION OF TRAINING:</u>					
FAIRLY WELL TO PERFECTLY	84	82	94	100	92
LITTLE OR NOT AT ALL	17	8	6	0	7
<u>SENSE OF ACCOMPLISHMENT GAINED FROM WORK:</u>					
SATISFIED	72	80	88	80	77
NEUTRAL	14	8	5	13	17
DISSATISFIED	11	12	6	7	6
OTHER	3	0	0	0	0
<u>REENLISTMENT INTENTIONS:</u>					
YES, OR PROBABLY YES	72	92	91	87	87
NO, OR PROBABLY NO	17	8	6	0	7
WILL RETIRE	11	0	4	13	4
OTHER	0	0	0	0	1

NOTE: Columns may not total 100 percent due to rounding

TABLE 92 (CONTINUED)

COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS  
(PERCENT MEMBERS RESPONDING)  
**AIR NATIONAL GUARD**

	-21 AME SUPPORT (N=17)	FLIGHTLINE EXPEDITER (N=8)	MAINTENANCE CONTROL (N=6)	SUPERVISOR (N=23)	CAMS (N=17)
<u>EXPRESSED JOB INTEREST:</u>					
INTERESTING	76	88	83	91	76
SO-SO	24	13	17	0	18
DULL	0	0	0	9	6
<u>PERCEIVED UTILIZATION OF TALENTS:</u>					
FAIRLY WELL TO PERFECTLY	82	100	67	91	88
LITTLE OR NOT AT ALL	18	0	33	9	12
<u>PERCEIVED UTILIZATION OF TRAINING:</u>					
FAIRLY WELL TO PERFECTLY	83	88	67	91	95
LITTLE OR NOT AT ALL	18	13	33	9	6
<u>SENSE OF ACCOMPLISHMENT GAINED FROM WORK:</u>					
SATISFIED	76	75	50	91	71
NEUTRAL	12	13	50	0	6
DISSATISFIED	12	13	0	9	24
<u>REENLISTMENT INTENTIONS:</u>					
YES, OR PROBABLY YES	94	100	83	70	94
NO, OR PROBABLY NO	6	0	0	0	0
WILL RETIRE	0	0	17	30	6

NOTE: Columns may not total 100 percent due to rounding

than the AFRC, and 11 percent higher than active duty. "Perceived Utilization of Talents" and "Reenlistment Intentions" were both rated at 89 percent. Active duty members rated these same indicators with 81 percent and 69 percent, with 84 and 85 percent respectively, for AFRC.

The specialty groups with the highest rated job satisfaction indicators for the ANG are the QA and Flight Line Expediter jobs. These two groups are composed of a few guardsmen holding a 7- or 9-skill level. Maintenance Control and Flight Line Maintenance had the lowest job satisfaction rating for the ANG with an average rating (see Table 92). These two groups are manned by experienced 5- and 7-skill level airmen and make up 4 percent of the ANG survey sample. Overall, satisfaction indicators for the ANG are positive and indicate strong reenlistment intentions.

## IMPLICATIONS

From the standpoint of the data gathered during the occupational survey, the AFSC 2A5X1 career ladder structure reflects a fairly homogeneous specialty. The Crew Chief Cluster comprises 52 percent of the survey sample, while the remaining members work either in a supervisory or management job, or in one of several support jobs. Overall job progression is normal and shows a distinct pattern as one moves from the 3- to the 9-skill level.

Some MAJCOM differences were evident. These differences were evident in such areas as average number of tasks performed by personnel, percentage of relative job time spent on duties, and mission driven jobs. The job satisfaction analysis shows Aerospace Maintenance personnel are relatively content with guardsmen and reservists reporting higher satisfaction ratings than their active duty counterparts. Further investigation is suggested for active duty personnel in the area of job interest and utilization of talents. Finally, a thorough review of all the data displayed in STSs products needs to be accomplished by SMEs and experienced training personnel. This review assures that the numerous 3-skill level STSs are comprehensive and accurate, and identify the appropriate training requirements.

## **APPENDIX A**

### **SELECTED REPRESENTATIVE TASKS PERFORMED BY MEMBERS OF AEROSPACE MAINTENANCE CAREER LADDER JOBS**

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TABLE A1  
TRANSIENT ALERT JOB

TASKS		PERCENT MEMBERS PERFORMING (N=17)
E307	Position fire extinguishers	100
E251	Launch or recover aircraft	100
E294	Perform aircraft fueling or defueling	100
E179	Connect or disconnect external electrical aircraft power	100
A27	Direct aircraft refueling or defueling operations	100
E297	Perform foreign object damage (FOD) walks	94
E304	Perform wing or tail walker procedures during aircraft towing	94
E303	Perform tow vehicle operator procedures during aircraft towing	94
E302	Perform tow supervisor procedures during aircraft towing	88
E181	Debrief aircrews	82
M891	Perform preuse inspections of powered AGE	82
M890	Perform preuse inspections of nonpowered AGE	82
E293	Perform aircraft fuel spill cleanup procedures	82
E387	Service aircraft LOX systems	82
E295	Perform brake rider procedures during aircraft towing	82
A13	Coordinate maintenance or supply problems with appropriate agencies	76
O928	Access core automated maintenance system (CAMS) or G0-81 menus and data screens	76
E389	Service aircraft tires	76
E381	Remove snow or ice from aircraft	71
A17	Determine or establish work assignments or priorities	71
A14	Counsel subordinates concerning personal matters	71
A11	Coordinate aircraft launch and recovery times with aircrews or appropriate agencies	65
A76	Supervise military personnel	65
B101	Maintain training records or files	65
E400	Take engine oil samples for analysis, such as joint oil analysis program (JOAP)	65
A10	Conduct supervisory performance feedback sessions	59
E183	Dispose of hazardous materials	59
D137	Coordinate maintenance of equipment with appropriate agencies	59
D146	Issue or log turn-ins of equipment, tools, parts, or supplies	59
A78	Write performance reports or supervisory appraisals	53
D138	Coordinate supply-related matters with appropriate agencies	53
E174	Classify aircraft fuel spills or leaks	53

TABLE A2  
FLIGHTLINE MAINTENANCE CLUSTER

TASKS		PERCENT MEMBERS PERFORMING (N=193)
E297	Perform foreign object damage (FOD) walks	93
E179	Connect or disconnect external electrical aircraft power	93
E304	Perform wing or tail walker procedures during aircraft towing	93
E261	Open or close engine cowlings, panels, or doors	92
E389	Service aircraft tires	88
E264	Operate aircraft interphones	88
E251	Launch or recover aircraft	86
E294	Perform aircraft fueling or defueling	86
E394	Service engines with oil	84
E175	Clean aircraft windshields	84
E307	Position fire extinguishers	80
E176	Clean interior of aircraft	76
E386	Service aircraft hydraulic systems	68
E257	Lubricate aircraft components	67
E295	Perform brake rider procedures during aircraft towing	67
E194	Inspect aircraft shock struts	66
E188	Inspect access doors, hatches, or panels	64
K789	Inspect external aircraft lights	63
E320	Remove or install aircraft hardware, such as screws or fasteners	62
E195	Inspect aircraft windows or windshields	61
F425	Inspect aircraft wheel and tire assemblies	59
E387	Service aircraft LOX systems	58
E250	Jack or level aircraft	56
E190	Inspect aircraft for corrosion	54
E227	Inspect portable fire extinguishers	51
F451	Inspect landing gear struts	48
J778	Transfer fuel within aircraft	48
E321	Remove or install aircraft protective coverings, such as intake plugs	46
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	46
M891	Perform preuse inspections of powered AGE	45
K805	Remove or install aircraft batteries	45
M890	Perform preuse inspections of nonpowered AGE	44
E392	Service engine CSDs or IDGs	44
O932	Clear Red-Diagonal conditions	44
J759	Inspect aircraft for fuel leaks	42
E187	Drain or replace aircraft engine oil	42
E265	Operate aircraft radios	42

TABLE A3  
ISOCHRONAL INSPECTOR JOB

TASKS		PERCENT MEMBERS PERFORMING (N=17)
E179	Connect or disconnect external electrical aircraft power	100
E257	Lubricate aircraft components	94
E304	Perform wing or tail walker procedures during aircraft towing	94
E320	Remove or install aircraft hardware, such as screws or fasteners	88
E190	Inspect aircraft for corrosion	88
F425	Inspect aircraft wheel and tire assemblies	88
E194	Inspect aircraft shock struts	82
E297	Perform foreign object damage (FOD) walks	82
E250	Jack or level aircraft	82
E188	Inspect access doors, hatches, or panels	76
F450	Inspect landing gear structural components	71
F451	Inspect landing gear struts	71
F453	Inspect landing gear up-lock mechanisms	71
K789	Inspect external aircraft lights	71
E389	Service aircraft tires	71
O932	Clear Red-Diagonal conditions	65
F435	Inspect landing gear door mechanisms	65
F436	Inspect landing gear down-lock mechanisms	65
H610	Inspect ailerons	65
E294	Perform aircraft fueling or defueling	65
E295	Perform brake rider procedures during aircraft towing	65
O931	Clear Red-Dash conditions	59
E264	Operate aircraft interphones	59
E307	Position fire extinguishers	59
E314	Remove or install access doors, hatches, or panels	53
F452	Inspect landing gear trucks, torque struts, or bogies	53
E261	Open or close engine cowlings, panels, or doors	53
F430	Inspect brake system components	53
E352	Remove or install liferafts	53
F438	Inspect landing gear emergency extension systems	53
F497	Remove or install wheel and tire assemblies	53
F446	Inspect landing gear mechanical components, such as drag braces, tow spools, pins, or bushings	47
E262	Open or close radomes	47
H614	Inspect elevators	47
H623	Inspect rudders	47
E230	Inspect radomes	47
H628	Inspect trailing edge flaps	47

TABLE A4

## PHASE INSPECTOR

TASKS		PERCENT MEMBERS PERFORMING (N=24)
F430	Inspect brake system components	100
F450	Inspect landing gear structural components	100
F452	Inspect landing gear trucks, torque struts, or bogies	100
F453	Inspect landing gear up-lock mechanisms	100
F451	Inspect landing gear struts	100
F446	Inspect landing gear mechanical components, such as drag braces, tow spools, pins, or bushings	100
F436	Inspect landing gear down-lock mechanisms	100
F435	Inspect landing gear door mechanisms	100
F425	Inspect aircraft wheel and tire assemblies	96
F437	Inspect landing gear electrical system components	96
F443	Inspect landing gear hydraulic system components	92
F454	Inspect landing gear wheel spin brake pads, such as snubber brakes	92
F449	Inspect landing gear steering systems	92
F445	Inspect landing gear leveling cylinders or rods	92
E297	Perform foreign object damage (FOD) walks	92
F440	Inspect landing gear extension or retraction components	92
F439	Inspect landing gear emergency retraction systems	92
F438	Inspect landing gear emergency extension systems	92
E304	Perform wing or tail walker procedures during aircraft towing	88
F431	Inspect landing gear bell cranks	88
F432	Inspect landing gear bogie pitch systems or axle beam positioners	88
F448	Inspect landing gear roll pin lock tabs	88
E179	Connect or disconnect external electrical aircraft power	88
F429	Inspect brake equalizing or compensating rods	88
E188	Inspect access doors, hatches, or panels	88
E389	Service aircraft tires	83
F456	Inspect nosegear folding bulkhead latching mechanisms or linkages	83
F428	Inspect bogie trim actuators or roll positioners	83
E190	Inspect aircraft for corrosion	83
E307	Position fire extinguishers	83
E320	Remove or install aircraft hardware, such as screws or fasteners	79
E194	Inspect aircraft shock struts	79
F442	Inspect landing gear hydraulic snubbers or shimmy dampeners	79
F441	Inspect landing gear gudgeon pin lock tabs	75

TABLE A5  
DOCK INSPECTOR CLUSTER

TASKS		PERCENT MEMBERS PERFORMING (N=193)
E297	Perform foreign object damage (FOD) walks	93
E179	Connect or disconnect external electrical aircraft power	93
E304	Perform wing or tail walker procedures during aircraft towing	91
E261	Open or close engine cowlings, panels, or doors	91
E257	Lubricate aircraft components	89
E188	Inspect access doors, hatches, or panels	85
E190	Inspect aircraft for corrosion	85
E264	Operate aircraft interphones	85
E194	Inspect aircraft shock struts	84
E195	Inspect aircraft windows or windshields	83
E307	Position fire extinguishers	77
E389	Service aircraft tires	77
E295	Perform brake rider procedures during aircraft towing	74
E250	Jack or level aircraft	74
E320	Remove or install aircraft hardware, such as screws or fasteners	73
E294	Perform aircraft fueling or defueling	73
E176	Clean interior of aircraft	70
E175	Clean aircraft windshields	70
E227	Inspect portable fire extinguishers	66
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	66
E251	Launch or recover aircraft	63
F425	Inspect aircraft wheel and tire assemblies	60
E265	Operate aircraft radios	60
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	59
E210	Inspect crew door systems	59
E262	Open or close radomes	59
E234	Inspect seat locking mechanisms	59
E386	Service aircraft hydraulic systems	58
E229	Inspect pressure seals, such as crew door, ramp, or visor seals	57
E314	Remove or install access doors, hatches, or panels	56
E204	Inspect cargo door or ramp mechanical components	56
F451	Inspect landing gear struts	56
E394	Service engines with oil	56
E218	Inspect ladder systems, such as entry, flight station, or troop compartment	55
E230	Inspect radomes	55

TABLE A6  
CREW CHIEF CLUSTER

TASKS	PERCENT MEMBERS PERFORMING (N=3,615)
E261 Open or close engine cowlings, panels, or doors	98
E179 Connect or disconnect external electrical aircraft power	98
E297 Perform foreign object damage (FOD) walks	97
E264 Operate aircraft interphones	97
E304 Perform wing or tail walker procedures during aircraft towing	96
E389 Service aircraft tires	96
E294 Perform aircraft fueling or defueling	96
E194 Inspect aircraft shock struts	95
E195 Inspect aircraft windows or windshields	95
E251 Launch or recover aircraft	94
K789 Inspect external aircraft lights	94
E175 Clean aircraft windshields	94
E307 Position fire extinguishers	94
E257 Lubricate aircraft components	93
E188 Inspect access doors, hatches, or panels	93
E295 Perform brake rider procedures during aircraft towing	93
E394 Service engines with oil	92
E386 Service aircraft hydraulic systems	92
E320 Remove or install aircraft hardware, such as screws or fasteners	92
F425 Inspect aircraft wheel and tire assemblies	92
E227 Inspect portable fire extinguishers	90
E190 Inspect aircraft for corrosion	89
E176 Clean interior of aircraft	89
K805 Remove or install aircraft batteries	88
F451 Inspect landing gear struts	88
L835 Inspect engine cowlings, panel, or door latches	87
K792 Inspect internal aircraft lights, other than emergency lights	87
O932 Clear Red-Diagonal conditions	87
J759 Inspect aircraft for fuel leaks	87
E250 Jack or level aircraft	86
J778 Transfer fuel within aircraft	86
E235 Inspect seats, seatbelts, inertial reels, or shoulder harnesses	86
E230 Inspect radomes	86
O931 Clear Red-Dash conditions	85
E265 Operate aircraft radios	85
K790 Inspect external power receptacles	85

TABLE A7

## DEPOT INSPECTOR JOB

TASKS		PERCENT MEMBERS PERFORMING (N=16)
E188	Inspect access doors, hatches, or panels	100
E257	Lubricate aircraft components	100
E206	Inspect cargo ramp seals	100
E229	Inspect pressure seals, such as crew door, ramp, or visor seals	100
E195	Inspect aircraft windows or windshields	100
E190	Inspect aircraft for corrosion	94
E204	Inspect cargo door or ramp mechanical components	94
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	94
E176	Clean interior of aircraft	94
E210	Inspect crew door systems	94
E314	Remove or install access doors, hatches, or panels	94
E313	Remove or install access door or hatch pressure seals	94
E153	Adjust access door or hatch latching mechanisms or linkages	94
E297	Perform foreign object damage (FOD) walks	94
E320	Remove or install aircraft hardware, such as screws or fasteners	88
E218	Inspect ladder systems, such as entry, flight station, or troop compartment	88
O931	Clear Red-Dash conditions	88
O932	Clear Red-Diagonal conditions	88
E243	Inspect troop door systems	88
E238	Inspect sliding or swinging window mechanisms or rollers	88
E382	Repair seats	88
E261	Open or close engine cowlings, panels, or doors	88
E237	Inspect side cargo door mechanical components	81
K792	Inspect internal aircraft lights, other than emergency lights	81
E312	Remove or install access door or hatch latching mechanisms or linkages	81
E179	Connect or disconnect external electrical aircraft power	81
E264	Operate aircraft interphones	81
E167	Adjust seat locking mechanisms	81
E203	Inspect cargo compartment pressure doors	75
E234	Inspect seat locking mechanisms	75
E212	Inspect crew or passenger comfort facilities, such as latrines or galleys	75
K791	Inspect fuse, circuit breaker, power control assemblies (PCASs), or current limiter panels	75

TABLE A8  
QUALITY ASSURANCE EVALUATOR JOB

TASKS	PERCENT MEMBERS PERFORMING (N=88)
E230 Inspect radomes	95
E190 Inspect aircraft for corrosion	93
E194 Inspect aircraft shock struts	93
K789 Inspect external aircraft lights	93
F451 Inspect landing gear struts	91
F450 Inspect landing gear structural components	91
E195 Inspect aircraft windows or windshields	90
L836 Inspect engine cowlings, panels, or doors	90
F425 Inspect aircraft wheel and tire assemblies	90
F435 Inspect landing gear door mechanisms	90
E235 Inspect seats, seatbelts, inertial reels, or shoulder harnesses	90
H623 Inspect rudders	90
E188 Inspect access doors, hatches, or panels	89
E210 Inspect crew door systems	89
K792 Inspect internal aircraft lights, other than emergency lights	89
K790 Inspect external power receptacles	89
A51 Evaluate personnel for compliance with performance standards or technical orders	88
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	88
A6 Conduct safety inspections of equipment or facilities	88
L835 Inspect engine cowlings, panel, or door latches	88
F430 Inspect brake system components	88
F449 Inspect landing gear steering systems	88
E227 Inspect portable fire extinguishers	86
E199 Inspect antennas	85
I695 Inspect hydraulic system accumulators	85
H614 Inspect elevators	85
L829 Inspect engine air inlet or exhaust areas	83
L844 Inspect engine nacelles	83
K785 Inspect aircraft batteries or aircraft battery components	83
F453 Inspect landing gear up-lock mechanisms	83
F452 Inspect landing gear trucks, torque struts, or bogies	82
F436 Inspect landing gear down-lock mechanisms	82

TABLE A9

## FIELD TRAINING DETACHMENT INSTRUCTOR JOB

TASKS		PERCENT MEMBERS PERFORMING (N=34)
E179	Connect or disconnect external electrical aircraft power	97
E261	Open or close engine cowlings, panels, or doors	97
B97	Evaluate progress of trainees	94
E264	Operate aircraft interphones	91
M891	Perform preuse inspections of powered AGE	91
F425	Inspect aircraft wheel and tire assemblies	91
E194	Inspect aircraft shock struts	88
A51	Evaluate personnel for compliance with performance standards or technical orders	85
B88	Counsel trainees on training progress	85
E307	Position fire extinguishers	85
M890	Perform preuse inspections of nonpowered AGE	85
A27	Direct aircraft refueling or defueling operations	85
E386	Service aircraft hydraulic systems	85
E389	Service aircraft tires	85
I738	Service aircraft accumulators	85
B102	Personalize lesson plans	82
A29	Direct training functions	82
E188	Inspect access doors, hatches, or panels	82
B85	Conduct formal course classroom training	79
B81	Administer or score tests	79
B92	Develop training materials or aids	79
E320	Remove or install aircraft hardware, such as screws or fasteners	79
E304	Perform wing or tail walker procedures during aircraft towing	79
A64	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	76
A60	Inspect personnel for compliance with military standards	74
B86	Conduct OJT	74
E297	Perform foreign object damage (FOD) walks	74
E227	Inspect portable fire extinguishers	74
E257	Lubricate aircraft components	74
E302	Perform tow supervisor procedures during aircraft towing	74
B103	Plan or schedule training	71
B96	Evaluate personnel to determine training needs	71
E294	Perform aircraft fueling or defueling	71
I742	Service hydraulic system reservoirs	71
E394	Service engines with oil	71

TABLE A10  
ON THE JOB TRAINING INSTRUCTOR

TASKS		PERCENT MEMBERS PERFORMING (N=16)
E179	Connect or disconnect external electrical aircraft power	100
B87	Conduct training conferences, briefings or debriefings	100
A5	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	100
A37	Establish organizational policies, such as operating instructions (OIs) or standard operating procedures (SOPs)	100
A51	Evaluate personnel for compliance with performance standards or technical orders	94
A14	Counsel subordinates concerning personal matters	94
A29	Direct training functions	94
A42	Evaluate in-process maintenance	94
A61	Interpret policies, directives, or procedures for subordinates	94
E297	Perform foreign object damage (FOD) walks	94
B97	Evaluate progress of trainees	94
A16	Determine or establish publication requirements	94
B92	Develop training materials or aids	94
B95	Evaluate effectiveness of training programs, plans, or procedures	94
A32	Draft supplements or changes to directives, such as regulations, manuals, or indexes	94
B91	Develop performance tests	94
A20	Develop or establish work methods or procedures	94
A44	Evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) Program	94
E175	Clean aircraft windshields	94
E164	Adjust ladder actuating or latching mechanisms, such as entry, flight station, or troop compartment	94
E199	Inspect antennas	94
A64	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	88
A18	Develop inputs to mobility, contingency, disaster preparedness, or unit emergency or alert plans	88
A60	Inspect personnel for compliance with military standards	88
B86	Conduct OJT	88
A6	Conduct safety inspections of equipment or facilities	88
B101	Maintain training records or files	88
A63	Maintain or update contingency plans, mobility plans, or base support plans	88
A7	Conduct self-inspections or self-assessments	88

TABLE A11

## AERO REPAIR CLUSTER

TASKS		PERCENT MEMBERS PERFORMING (N=437)
H608	Check flight control surface travel, using protractors, templates, or rigging devices	92
H638	Operationally check rudder systems	91
H594	Adjust ailerons or aileron system components	89
H617	Inspect flight control cable tensions	88
H597	Adjust elevators or elevator system components	88
H631	Operationally check aileron systems	87
E250	Jack or level aircraft	87
E267	Operate landing gear or wheel well doors	86
H633	Operationally check elevator systems	86
H677	Troubleshoot rudder systems	86
H605	Adjust rudders or rudder control mechanisms	86
E179	Connect or disconnect external electrical aircraft power	86
H610	Inspect ailerons	86
H609	Inspect aileron systems	85
H607	Adjust trailing edge flaps or trailing edge flap system components	85
H622	Inspect rudder systems	85
H670	Troubleshoot aileron systems	84
H642	Remove or install aileron system components	84
H656	Remove or install rudder system components	84
H672	Troubleshoot elevator systems	83
O932	Clear Red-Diagonal conditions	83
H613	Inspect elevator systems	82
H643	Remove or install ailerons	81
H647	Remove or install elevator system components	81
H623	Inspect rudders	81
F479	Remove or install landing gear doors	80
O931	Clear Red-Dash conditions	79
F418	Adjust landing gear emergency extension systems	79
H664	Remove or install trailing edge flaps	79
F435	Inspect landing gear door mechanisms	79
H614	Inspect elevators	79
H603	Adjust rudder and brake pedal assemblies	79
H680	Troubleshoot trailing edge flap systems	78
F416	Adjust landing gear door latching mechanisms or linkages	78
F465	Operationally check landing gear extension or retraction systems	78
H657	Remove or install rudders	78
E297	Perform foreign object damage (FOD) walks	78
H648	Remove or install elevators	77

TABLE A12

## -21 ALTERNATE MISSION EQUIPMENT SUPPORT CLUSTER

TASKS		PERCENT MEMBERS PERFORMING (N=169)
N920	Remove or install -21 AME, other than seats	96
N902	Inspect -21 alternate mission equipment (AME), other than emergency equipment	91
N917	Perform maintenance on -21 AME	89
N926	Replace portable oxygen bottles	86
N912	Perform -21 AME downloads or uploads	85
N913	Perform accountability inspections of -21 AME on aircraft	85
N918	Perform repairs on cargo compartment seats or litters	82
N904	Inspect aircraft emergency equipment, such as first-aid kits	81
N909	Operationally check cargo loading winches	80
N906	Maintain cargo loading winches	79
N911	Pack or unpack -21 AME	74
N925	Remove or install dual-rail or -135 cargo handling system components	65
N914	Perform corrosion control on -21 AME	65
N905	Inspect dual-rail or -135 cargo handling systems	64
N901	Adjust dual-rail or -135 cargo handling system components	61
N927	Troubleshoot dual-rail or -135 cargo handling systems	58
N910	Operationally check dual-rail or -135 cargo handling systems	54
E179	Connect or disconnect external electrical aircraft power	53
E297	Perform foreign object damage (FOD) walks	51
D145	Inventory equipment, tools, parts, or supplies	51
N915	Perform corrosion control on dual-rail or -135 cargo handling systems	51
O932	Clear Red-Diagonal conditions	51
A6	Conduct safety inspections of equipment or facilities	50
O931	Clear Red-Dash conditions	49
N923	Remove or install air deflectors for troop drops	49
N921	Remove or install ADS cables	48
D152	Store equipment, tools, parts, or supplies	46
N899	Adjust ADS cables	45
N903	Inspect air deflectors for troop drops	45
A40	Evaluate aircraft configuration changes	43
E382	Repair seats	42
E227	Inspect portable fire extinguishers	42
D151	Pick up or deliver equipment, tools, parts, or supplies	41
D140	Evaluate serviceability of equipment, tools, parts, or supplies	40
B86	Conduct OJT	40

TABLE A13  
EQUIPMENT MANAGEMENT CLUSTER

TASKS	PERCENT MEMBERS PERFORMING (N=211)
D152 Store equipment, tools, parts, or supplies	88
D145 Inventory equipment, tools, parts, or supplies	84
D146 Issue or log turn-ins of equipment, tools, parts, or supplies	79
D140 Evaluate serviceability of equipment, tools, parts, or supplies	77
D141 Identify and report equipment or supply problems	64
D151 Pick up or deliver equipment, tools, parts, or supplies	62
D144 Initiate requisitions for equipment, tools, parts, or supplies	54
D147 Maintain benchstock parts or equipment levels	51
D142 Initiate documentation to turn in excess or surplus property	51
A6 Conduct safety inspections of equipment or facilities	46
A39 Establish procedures for accountability of equipment, tools, parts, or supplies	46
D138 Coordinate supply-related matters with appropriate agencies	44
D148 Maintain documentation on items requiring periodic inspections	42
O928 Access core automated maintenance system (CAMS) or G0-81 menus and data screens	41
A7 Conduct self-inspections or self-assessments	40
D150 Maintain precision measurement equipment (PME) calibration schedules	36
D143 Initiate letters of justification for supply-related matters	34
A13 Coordinate maintenance or supply problems with appropriate agencies	34
D137 Coordinate maintenance of equipment with appropriate agencies	33
A76 Supervise military personnel	33
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	31

TABLE A14  
FLIGHT LINE EXPEDITER

TASKS		PERCENT MEMBERS PERFORMING (N=154)
A17	Determine or establish work assignments or priorities	93
A12	Coordinate cannibalization of parts with appropriate agencies	92
A13	Coordinate maintenance or supply problems with appropriate agencies	89
O946	Review aircraft flight or maintenance records, such as AF Forms 781 series	88
A76	Supervise military personnel	86
O933	Clear Red-X conditions	83
A11	Coordinate aircraft launch and recovery times with aircrews or appropriate agencies	73
O931	Clear Red-Dash conditions	69
O928	Access core automated maintenance system (CAMS) or G0-81 menus and data screens	69
A15	Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	69
A60	Inspect personnel for compliance with military standards	68
O929	Adjust daily maintenance plans to meet operation commitments	66
O932	Clear Red-Diagonal conditions	65
A14	Counsel subordinates concerning personal matters	65
A69	Plan or schedule work assignments or priorities	64
O941	Initiate or annotate aircraft flight or maintenance records, such as AF Forms 781 series	63
A64	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	62
A42	Evaluate in-process maintenance	61
A73	Review flight schedules	60
D137	Coordinate maintenance of equipment with appropriate agencies	56
A27	Direct aircraft refueling or defueling operations	55
D138	Coordinate supply-related matters with appropriate agencies	55
E297	Perform foreign object damage (FOD) walks	55
A40	Evaluate aircraft configuration changes	54
O947	Review preventive maintenance schedules	50
O945	Retrieve CAMS or G0-81 listings or reports	50
A61	Interpret policies, directives, or procedures for subordinates	49

TABLE A15  
MAINTENANCE CONTROL JOB

TASKS	PERCENT MEMBERS PERFORMING (N=50)
O928 Access core automated maintenance system (CAMS) or G0-81 menus and data screens	94
A11 Coordinate aircraft launch and recovery times with aircrews or appropriate agencies	86
A17 Determine or establish work assignments or priorities	86
A76 Supervise military personnel	82
O945 Retrieve CAMS or G0-81 listings or reports	80
A13 Coordinate maintenance or supply problems with appropriate agencies	74
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	74
B101 Maintain training records or files	74
O952 Verify accuracy of CAMS or G0-81 daily inputs	72
A73 Review flight schedules	72
A14 Counsel subordinates concerning personal matters	72
O930 Analyze CAMS or G0-81 data	68
A12 Coordinate cannibalization of parts with appropriate agencies	68
A38 Establish performance standards for subordinates	68
A10 Conduct supervisory performance feedback sessions	66
A20 Develop or establish work methods or procedures	64
B97 Evaluate progress of trainees	64
A61 Interpret policies, directives, or procedures for subordinates	62
A60 Inspect personnel for compliance with military standards	62
B86 Conduct OJT	62
C125 Maintain or update status indicators, such as boards, graphs, or charts	60
A69 Plan or schedule work assignments or priorities	60
A78 Write performance reports or supervisory appraisals	60
A21 Develop or establish work schedules	60
A7 Conduct self-inspections or self-assessments	60
O949 Update maintenance data collection (MDC) data in CAMS or G0-81	58
O934 Compile data for records, reports, logs, or trend analyses	56
D138 Coordinate supply-related matters with appropriate agencies	56
A18 Develop inputs to mobility, contingency, disaster preparedness, or unit emergency or alert plans	56
P962 Don or doff chemical warfare personal protective clothing	54

TABLE A16  
SUPERVISOR CLUSTER

TASKS	PERCENT MEMBERS PERFORMING (N=498)
A14 Counsel subordinates concerning personal matters	94
A76 Supervise military personnel	92
A60 Inspect personnel for compliance with military standards	92
A17 Determine or establish work assignments or priorities	87
A10 Conduct supervisory performance feedback sessions	87
A78 Write performance reports or supervisory appraisals	86
A79 Write recommendations for awards or decorations	86
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	82
A21 Develop or establish work schedules	82
A7 Conduct self-inspections or self-assessments	81
A61 Interpret policies, directives, or procedures for subordinates	81
A9 Conduct supervisory orientations for newly assigned personnel	77
A2 Assign personnel to work areas or duty positions, other than mobility positions	76
A38 Establish performance standards for subordinates	76
A52 Evaluate personnel for promotion, demotion, reclassification, or special awards	75
A69 Plan or schedule work assignments or priorities	74
A6 Conduct safety inspections of equipment or facilities	73
A58 Initiate actions required due to substandard performance of personnel	72
A51 Evaluate personnel for compliance with performance standards or technical orders	71
A55 Evaluate work schedules	70
B101 Maintain training records or files	67
A15 Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	67
A74 Schedule personnel for temporary duty (TDY) assignments, leaves, or passes	66
A5 Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	66
A56 Evaluate workload requirements	65
A13 Coordinate maintenance or supply problems with appropriate agencies	65
A20 Develop or establish work methods or procedures	65
B97 Evaluate progress of trainees	65

TABLE A17

## CORE AUTOMATED MAINTENANCE SYSTEM JOB

TASKS	PERCENT MEMBERS PERFORMING (N=133)
O928 Access core automated maintenance system (CAMS) or G0-81 menus and data screens	97
O945 Retrieve CAMS or G0-81 listings or reports	88
O952 Verify accuracy of CAMS or G0-81 daily inputs	74
A13 Coordinate maintenance or supply problems with appropriate agencies	70
O930 Analyze CAMS or G0-81 data	69
O946 Review aircraft flight or maintenance records, such as AF Forms 781 series	66
O949 Update maintenance data collection (MDC) data in CAMS or G0-81	61
A12 Coordinate cannibalization of parts with appropriate agencies	61
O934 Compile data for records, reports, logs, or trend analyses	56
O948 Update historical reports in CAMS or G0-81	56
D137 Coordinate maintenance of equipment with appropriate agencies	47
C125 Maintain or update status indicators, such as boards, graphs, or charts	44
O929 Adjust daily maintenance plans to meet operation commitments	44
A11 Coordinate aircraft launch and recovery times with aircrews or appropriate agencies	41
D138 Coordinate supply-related matters with appropriate agencies	40
O941 Initiate or annotate aircraft flight or maintenance records, such as AF Forms 781 series	38
A17 Determine or establish work assignments or priorities	37
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops other than conducting	35
A76 Supervise military personnel	29
O933 Clear Red-X conditions	29
B86 Conduct OJT	29
O932 Clear Red-Diagonal conditions	27
O931 Clear Red-Dash conditions	27

TABLE A18  
TRAINING CLUSTER

TASKS		PERCENT MEMBERS PERFORMING (N=78)
B95	Evaluate effectiveness of training programs, plans, or procedures	79
B97	Evaluate progress of trainees	78
B92	Develop training materials or aids	78
B103	Plan or schedule training	77
B93	Develop training programs, plans, or procedures	76
B101	Maintain training records or files	76
A29	Direct training functions	73
B102	Personalize lesson plans	69
B81	Administer or score tests	67
B88	Counsel trainees on training progress	67
B89	Determine training requirements	67
B105	Procure training aids, space, or equipment	65
B96	Evaluate personnel to determine training needs	64
B83	Brief organizational personnel concerning training programs or matters	63
B85	Conduct formal course classroom training	60
B100	Inspect training materials or aids for operation or suitability	59
A64	Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	59
B94	Establish or maintain study reference files	54
B106	Schedule personnel for training	51
B107	Write test questions	50
A5	Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	50
A14	Counsel subordinates concerning personal matters	50
B91	Develop performance tests	49
B90	Develop formal course curricula, plans of instructions (POIs), or specialty training standards (STSs)	47
B98	Evaluate training methods or techniques of instructors	47
B87	Conduct training conferences, briefings or debriefings	46
A7	Conduct self-inspections or self-assessments	46

TABLE A19  
MOBILITY JOB

TASKS	PERCENT MEMBERS PERFORMING (N=40)
P967 Identify equipment or personnel requirements for mobility exercises or deployments	98
P954 Brief deploying personnel	93
P982 Review availability status of personnel for deployments	90
P987 Verify eligibility of tasked personnel for deployments	90
P968 Inspect mobility bags or kits	90
A18 Develop inputs to mobility, contingency, disaster preparedness, or unit emergency or alert plans	90
P977 Participate in mobility exercise planning meetings	85
P976 Pack or palletize mobility or contingency equipment for shipment or movement	83
P953 Assign personnel to mobility positions	80
P969 Inspect packed or palletized mobility or contingency equipment prior to transport	80
P960 Conduct mobility training	78
P983 Review OPLANs to determine unit or personnel responsibilities	75
P961 Develop mobility inspection checklists	73
A66 Plan deployments of equipment or personnel	70
A50 Evaluate mobility, contingency, disaster preparedness, or unit emergency or alert plans	70
A63 Maintain or update contingency plans, mobility plans, or base support plans	68
P980 Prepare equipment for deployments	68
P979 Perform pallet build-up activities	68
P962 Don or doff chemical warfare personal protective clothing	68
P970 Monitor mobility deployments kits	65
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	65
P963 Draft or write mobility exercise or deployment after-action reports	65
A7 Conduct self-inspections or self-assessments	63
P974 Operate forklifts during contingency exercises or operations	60
A5 Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	58
P955 Complete operations plans (OPLANs) sourcing requirements	55
P957 Conduct contingency operation/mobility planning and execution system (COMPES) programs	55

TABLE A20  
TECHNICAL ORDERS JOB

TASKS	PERCENT MEMBERS PERFORMING (N=28)
C124 Maintain ATOMS accounts	100
C128 Maintain technical order libraries	89
C134 Review technical order changes	89
C115 Establish automated technical order management system (ATOMS) accounts	89
C130 Maintain time compliance technical orders (TCTOs)	75
A7 Conduct self-inspections or self-assessments	57
C112 Destroy classified materials	46
A16 Determine or establish publication requirements	43
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	39
C114 Establish accountability records for classified materials or documents	32
C129 Maintain technical order operating lists (TOOLS)	29
A51 Evaluate personnel for compliance with performance standards or technical orders	29
E297 Perform foreign object damage (FOD) walks	25
O942 Initiate technical order improvement reports	25
C125 Maintain or update status indicators, such as boards, graphs, or charts	21
C127 Maintain publication libraries, other than technical order libraries	21
C122 Inventory classified materials	21
D145 Inventory equipment, tools, parts, or supplies	21
D151 Pick up or deliver equipment, tools, parts, or supplies	21
A24 Develop self-inspection or self-assessment program checklists	21
A8 Conduct staff assistance visits, inspections, or audits	18
A10 Conduct supervisory performance feedback sessions	18
P962 Don or doff chemical warfare personal protective clothing	18
C135 Safeguard classified materials	18
A19 Develop inspection schedules or procedures	18
A76 Supervise military personnel	14

## **APPENDIX B**

### **TOTAL SURVEY SAMPLE OF REPRESENTATIVE TASKS AND TASKS THAT DIFFERENTIATE DAFSCs**

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TABLE B1

## REPRESENTATIVE TASKS PERFORMED BY ALL DAFSC 2A531X PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=796)
E297	Perform foreign object damage (FOD) walks	87
E179	Connect or disconnect external electrical aircraft power	85
E264	Operate aircraft interphones	81
E261	Open or close engine cowlings, panels, or doors	81
E304	Perform wing or tail walker procedures during aircraft towing	79
E257	Lubricate aircraft components	77
E389	Service aircraft tires	76
E294	Perform aircraft fueling or defueling	75
E307	Position fire extinguishers	75
E251	Launch or recover aircraft	73
E194	Inspect aircraft shock struts	73
E175	Clean aircraft windshields	73
E320	Remove or install aircraft hardware, such as screws or fasteners	72
E176	Clean interior of aircraft	72
E394	Service engines with oil	72
E188	Inspect access doors, hatches, or panels	70
F425	Inspect aircraft wheel and tire assemblies	70
E195	Inspect aircraft windows or windshields	70
E190	Inspect aircraft for corrosion	69
E386	Service aircraft hydraulic systems	69
K789	Inspect external aircraft lights	69
E295	Perform brake rider procedures during aircraft towing	69
E227	Inspect portable fire extinguishers	68
E250	Jack or level aircraft	67
F451	Inspect landing gear struts	64
K805	Remove or install aircraft batteries	62
O932	Clear Red-Diagonal conditions	61
O931	Clear Red-Dash conditions	60
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	59
L835	Inspect engine cowling, panel, or door latches	59
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	59
L835	Inspect engine cowling, panel, or door latches	59
E170	Bleed brake systems	59
M890	Perform preuse inspections of nonpowered AGE	58
E212	Inspect crew or passenger comfort facilities, such as latrines or galleys	58
K790	Inspect external power receptacles	58
K792	Inspect internal aircraft lights, other than emergency lights	58
E265	Operate aircraft radios	58
E212	Inspect crew or passenger comfort facilities, such as latrines or galleys	58
K790	Inspect external power receptacles	58

TABLE B2

## REPRESENTATIVE TASKS PERFORMED BY DAFSC 2A531A PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=112)
E297 Perform foreign object damage (FOD) walks	83
E179 Connect or disconnect external electrical aircraft power	81
E257 Lubricate aircraft components	75
E264 Operate aircraft interphones	74
E261 Open or close engine cowlings, panels, or doors	72
E320 Remove or install aircraft hardware, such as screws or fasteners	71
E304 Perform wing or tail walker procedures during aircraft towing	71
E188 Inspect access doors, hatches, or panels	68
E389 Service aircraft tires	68
E251 Launch or recover aircraft	67
E307 Position fire extinguishers	67
E175 Clean aircraft windshields	67
E295 Perform brake rider procedures during aircraft towing	65
E190 Inspect aircraft for corrosion	64
E294 Perform aircraft fueling or defueling	64
E250 Jack or level aircraft	64
E394 Service engines with oil	63
F425 Inspect aircraft wheel and tire assemblies	63
E387 Service aircraft LOX systems	63
E195 Inspect aircraft windows or windshields	62
E386 Service aircraft hydraulic systems	61
E227 Inspect portable fire extinguishers	60
E206 Inspect cargo ramp seals	60
O932 Clear Red-Diagonal conditions	59
K789 Inspect external aircraft lights	59
E194 Inspect aircraft shock struts	59
E176 Clean interior of aircraft	57
E392 Service engine CSDs or IDGs	57
E230 Inspect radomes	57
J778 Transfer fuel within aircraft	56
E204 Inspect cargo door or ramp mechanical components	54
O931 Clear Red-Dash conditions	54
E210 Inspect crew door systems	54
F451 Inspect landing gear struts	54
E212 Inspect crew or passenger comfort facilities, such as latrines or galleys	53
E203 Inspect cargo compartment pressure doors	53
E235 Inspect seats, seatbelts, inertial reels, or shoulder harnesses	53
E201 Inspect blow-out doors	53
K790 Inspect external power receptacles	52
E205 Inspect cargo loading struts or tail stands	52

TABLE B3

## TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A531B PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=160)
E297 Perform foreign object damage (FOD) walks	87
E179 Connect or disconnect external electrical aircraft power	84
E264 Operate aircraft interphones	83
E261 Open or close engine cowlings, panels, or doors	82
E304 Perform wing or tail walker procedures during aircraft towing	80
E257 Lubricate aircraft components	79
E194 Inspect aircraft shock struts	78
E250 Jack or level aircraft	77
E294 Perform aircraft fueling or defueling	76
E176 Clean interior of aircraft	74
E190 Inspect aircraft for corrosion	74
E389 Service aircraft tires	74
E307 Position fire extinguishers	73
E175 Clean aircraft windshields	73
E188 Inspect access doors, hatches, or panels	72
E260 Moor aircraft	72
E195 Inspect aircraft windows or windshields	72
E251 Launch or recover aircraft	71
E320 Remove or install aircraft hardware, such as screws or fasteners	69
E387 Service aircraft LOX systems	69
E262 Open or close radomes	69
E265 Operate aircraft radios	68
K789 Inspect external aircraft lights	68
E235 Inspect seats, seatbelts, inertial reels, or shoulder harnesses	68
E227 Inspect portable fire extinguishers	67
F425 Inspect aircraft wheel and tire assemblies	66
E291 Operationally check troop doors	66
F451 Inspect landing gear struts	66
E295 Perform brake rider procedures during aircraft towing	66
E170 Bleed brake systems	66
E230 Inspect radomes	64
E352 Remove or install liferafts	64
E321 Remove or install aircraft protective coverings, such as intake plugs	63
E386 Service aircraft hydraulic systems	63
E243 Inspect troop door systems	63
E394 Service engines with oil	63
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	62
F457 Lubricate main landing gear jack screws	62
F455 Inspect main landing gear jack screws	62

TABLE B4

## REPRESENTATIVE TASKS PERFORMED BY DAFSC 2A531C PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=151)	
E297	Perform foreign object damage (FOD) walks	89
E179	Connect or disconnect external electrical aircraft power	83
E304	Perform wing or tail walker procedures during aircraft towing	83
E264	Operate aircraft interphones	82
E389	Service aircraft tires	79
E261	Open or close engine cowlings, panels, or doors	79
E320	Remove or install aircraft hardware, such as screws or fasteners	78
E257	Lubricate aircraft components	78
E307	Position fire extinguishers	77
E394	Service engines with oil	77
E387	Service aircraft LOX systems	75
E294	Perform aircraft fueling or defueling	74
F425	Inspect aircraft wheel and tire assemblies	74
E386	Service aircraft hydraulic systems	73
E194	Inspect aircraft shock struts	71
O932	Clear Red-Diagonal conditions	70
E250	Jack or level aircraft	70
E176	Clean interior of aircraft	69
E295	Perform brake rider procedures during aircraft towing	68
K789	Inspect external aircraft lights	68
F451	Inspect landing gear struts	68
E175	Clean aircraft windshields	68
E188	Inspect access doors, hatches, or panels	67
E251	Launch or recover aircraft	66
E190	Inspect aircraft for corrosion	66
E265	Operate aircraft radios	66
E227	Inspect portable fire extinguishers	66
F448	Inspect landing gear roll pin lock tabs	65
K805	Remove or install aircraft batteries	65
O931	Clear Red-Dash conditions	64
F457	Lubricate main landing gear jack screws	64
E195	Inspect aircraft windows or windshields	64
F455	Inspect main landing gear jack screws	63
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	62
F441	Inspect landing gear gudgeon pin lock tabs	62
E204	Inspect cargo door or ramp mechanical components	62
L835	Inspect engine cowlings, panel, or door latches	61
M890	Perform preuse inspections of nonpowered AGE	60
K796	Operationally check aircraft batteries	60
K792	Inspect internal aircraft lights, other than emergency lights	60

TABLE B5

## REPRESENTATIVE TASKS PERFORMED BY DAFSC 2A531D PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=80)
E297 Perform foreign object damage (FOD) walks	89
E179 Connect or disconnect external electrical aircraft power	86
E264 Operate aircraft interphones	81
E261 Open or close engine cowlings, panels, or doors	79
F425 Inspect aircraft wheel and tire assemblies	78
E307 Position fire extinguishers	78
E257 Lubricate aircraft components	76
E304 Perform wing or tail walker procedures during aircraft towing	75
E188 Inspect access doors, hatches, or panels	73
E389 Service aircraft tires	73
O931 Clear Red-Dash conditions	73
E294 Perform aircraft fueling or defueling	71
E195 Inspect aircraft windows or windshields	71
O932 Clear Red-Diagonal conditions	71
K789 Inspect external aircraft lights	70
E227 Inspect portable fire extinguishers	70
E387 Service aircraft LOX systems	69
E251 Launch or recover aircraft	68
E320 Remove or install aircraft hardware, such as screws or fasteners	68
E176 Clean interior of aircraft	68
E386 Service aircraft hydraulic systems	68
E190 Inspect aircraft for corrosion	66
E175 Clean aircraft windshields	66
E394 Service engines with oil	65
E194 Inspect aircraft shock struts	64
F451 Inspect landing gear struts	64
E275 Operationally check cargo doors or ramps	64
E235 Inspect seats, seatbelts, inertial reels, or shoulder harnesses	63
E260 Moor aircraft	63
E250 Jack or level aircraft	61
K790 Inspect external power receptacles	61
E291 Operationally check troop doors	61
E214 Inspect engine pylons or aprons	60
L835 Inspect engine cowling, panel, or door latches	58
E187 Drain or replace aircraft engine oil	58
K792 Inspect internal aircraft lights, other than emergency lights	58
E204 Inspect cargo door or ramp mechanical components	56
E279 Operationally check entry door systems	55
O946 Review aircraft flight or maintenance records, such as AF Forms 781 series	54
L836 Inspect engine cowlings, panels, or doors	54

TABLE B6

## REPRESENTATIVE TASKS PERFORMED BY ALL DAFSC 2A531E PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=41)
E297 Perform foreign object damage (FOD) walks	90
E179 Connect or disconnect external electrical aircraft power	88
E264 Operate aircraft interphones	88
E261 Open or close engine cowlings, panels, or doors	85
E194 Inspect aircraft shock struts	85
E251 Launch or recover aircraft	83
E386 Service aircraft hydraulic systems	83
E294 Perform aircraft fueling or defueling	78
E304 Perform wing or tail walker procedures during aircraft towing	78
E389 Service aircraft tires	78
E188 Inspect access doors, hatches, or panels	78
E257 Lubricate aircraft components	78
E180 Connect or disconnect hydraulic test stands to or from aircraft	78
E394 Service engines with oil	76
E224 Inspect overwing fairings	76
E190 Inspect aircraft for corrosion	76
E220 Inspect magnetic chip detectors	76
E250 Jack or level aircraft	76
E295 Perform brake rider procedures during aircraft towing	73
E189 Inspect accessory drive gearboxes (ADGs)	73
E269 Operate weapons bay doors	73
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	73
E320 Remove or install aircraft hardware, such as screws or fasteners	71
E307 Position fire extinguishers	71
E388 Service aircraft nitrogen systems	71
E392 Service engine CSDs or IDGs	71
E321 Remove or install aircraft protective coverings, such as intake plugs	68
E195 Inspect aircraft windows or windshields	68
K789 Inspect external aircraft lights	68
E245 Inspect weapons bay doors	68
F451 Inspect landing gear struts	68
E296 Perform chip detector ohm tests on aircraft components	68
M890 Perform preuse inspections of nonpowered AGE	66
E175 Clean aircraft windshields	66
E396 Service gaseous oxygen systems	66
E183 Dispose of hazardous materials	66
E262 Open or close radomes	66
E391 Service crew or passenger comfort facilities, such as latrines or galleys	63

TABLE B7

## REPRESENTATIVE TASKS PERFORMED BY ALL DAFSC 2A531F PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=36)	
E261	Open or close engine cowlings, panels, or doors	92
E179	Connect or disconnect external electrical aircraft power	92
E297	Perform foreign object damage (FOD) walks	92
E307	Position fire extinguishers	92
E304	Perform wing or tail walker procedures during aircraft towing	86
E251	Launch or recover aircraft	86
K789	Inspect external aircraft lights	86
E161	Adjust engine cowling, panel, or door latches	83
L835	Inspect engine cowling, panel, or door latches	83
E394	Service engines with oil	83
E175	Clean aircraft windshields	83
E264	Operate aircraft interphones	81
E389	Service aircraft tires	81
E386	Service aircraft hydraulic systems	81
G565	Remove or install drag chutes	81
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	81
E320	Remove or install aircraft hardware, such as screws or fasteners	78
E194	Inspect aircraft shock struts	78
E257	Lubricate aircraft components	78
L860	Remove or install engine cowlings, panels, or doors	78
K792	Inspect internal aircraft lights, other than emergency lights	78
E176	Clean interior of aircraft	78
E195	Inspect aircraft windows or windshields	75
E294	Perform aircraft fueling or defueling	75
L836	Inspect engine cowlings, panels, or doors	75
E295	Perform brake rider procedures during aircraft towing	75
L859	Remove or install engine cowling, panel, or door latches	75
E227	Inspect portable fire extinguishers	75
F425	Inspect aircraft wheel and tire assemblies	75
E400	Take engine oil samples for analysis, such as joint oil analysis program (JOAP)	75
E188	Inspect access doors, hatches, or panels	72
E387	Service aircraft LOX systems	72
M891	Perform preuse inspections of powered AGE	72
J780	Verify aircraft fuel tank quantity with dipstick or sight gauge	72
J759	Inspect aircraft for fuel leaks	72
J778	Transfer fuel within aircraft	72
I738	Service aircraft accumulators	72
K790	Inspect external power receptacles	72
E262	Open or close radomes	72

TABLE B8

## REPRESENTATIVE TASKS PERFORMED BY ALL DAFSC 2A531G PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=104)
E179	Connect or disconnect external electrical aircraft power	94
E297	Perform foreign object damage (FOD) walks	91
E261	Open or close engine cowlings, panels, or doors	90
E175	Clean aircraft windshields	87
E304	Perform wing or tail walker procedures during aircraft towing	85
E264	Operate aircraft interphones	83
E294	Perform aircraft fueling or defueling	83
E176	Clean interior of aircraft	83
E194	Inspect aircraft shock struts	83
E295	Perform brake rider procedures during aircraft towing	82
E394	Service engines with oil	81
E389	Service aircraft tires	81
E251	Launch or recover aircraft	80
E307	Position fire extinguishers	80
E267	Operate landing gear or wheel well doors	79
E195	Inspect aircraft windows or windshields	78
E386	Service aircraft hydraulic systems	78
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	77
E320	Remove or install aircraft hardware, such as screws or fasteners	77
E188	Inspect access doors, hatches, or panels	76
E227	Inspect portable fire extinguishers	76
E257	Lubricate aircraft components	75
K805	Remove or install aircraft batteries	74
K789	Inspect external aircraft lights	73
E170	Bleed brake systems	72
F425	Inspect aircraft wheel and tire assemblies	70
E369	Remove or install safety devices, such as seat pins or gear locks	69
E391	Service crew or passenger comfort facilities, such as latrines or galleys	69
E201	Inspect blow-out doors	69
G540	Inspect portable oxygen bottles	69
E190	Inspect aircraft for corrosion	68
F497	Remove or install wheel and tire assemblies	68
F471	Remove or install aircraft brake assemblies or brake system components	68
E321	Remove or install aircraft protective coverings, such as intake plugs	67
F451	Inspect landing gear struts	67
M891	Perform preuse inspections of powered AGE	66
I738	Service aircraft accumulators	66
J759	Inspect aircraft for fuel leaks	65
L836	Inspect engine cowlings, panels, or doors	65

TABLE B9

## REPRESENTATIVE TASKS PERFORMED BY ALL DAFSC 2A531H PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=112)	
E297	Perform foreign object damage (FOD) walks	84
E179	Connect or disconnect external electrical aircraft power	83
E294	Perform aircraft fueling or defueling	80
E175	Clean aircraft windshields	80
E261	Open or close engine cowlings, panels, or doors	80
E176	Clean interior of aircraft	79
E251	Launch or recover aircraft	79
E392	Service engine CSDs or IDGs	79
E264	Operate aircraft interphones	79
E394	Service engines with oil	79
E194	Inspect aircraft shock struts	79
E389	Service aircraft tires	79
E267	Operate landing gear or wheel well doors	75
E304	Perform wing or tail walker procedures during aircraft towing	74
E227	Inspect portable fire extinguishers	74
E257	Lubricate aircraft components	74
E295	Perform brake rider procedures during aircraft towing	74
E195	Inspect aircraft windows or windshields	73
E396	Service gaseous oxygen systems	73
K789	Inspect external aircraft lights	73
E265	Operate aircraft radios	73
E190	Inspect aircraft for corrosion	71
F425	Inspect aircraft wheel and tire assemblies	71
E400	Take engine oil samples for analysis, such as joint oil analysis program (JOAP)	71
J759	Inspect aircraft for fuel leaks	71
E307	Position fire extinguishers	70
E320	Remove or install aircraft hardware, such as screws or fasteners	69
E183	Dispose of hazardous materials	69
M891	Perform preuse inspections of powered AGE	69
E230	Inspect radomes	69
E386	Service aircraft hydraulic systems	68
M890	Perform preuse inspections of nonpowered AGE	68
F451	Inspect landing gear struts	67
E214	Inspect engine pylons or aprons	67
J778	Transfer fuel within aircraft	67
E188	Inspect access doors, hatches, or panels	65
E212	Inspect crew or passenger comfort facilities, such as latrines or galleys	64
K790	Inspect external power receptacles	62
O931	Clear Red-Dash conditions	61
L835	Inspect engine cowling, panel, or door latches	61

TABLE B10

## REPRESENTATIVE TASKS PERFORMED BY ALL DAFSC 2A551X PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=3,548)
E179 Connect or disconnect external electrical aircraft power	80
E297 Perform foreign object damage (FOD) walks	80
E264 Operate aircraft interphones	74
E304 Perform wing or tail walker procedures during aircraft towing	73
E261 Open or close engine cowlings, panels, or doors	72
E389 Service aircraft tires	71
E194 Inspect aircraft shock struts	71
E257 Lubricate aircraft components	71
E320 Remove or install aircraft hardware, such as screws or fasteners	70
E188 Inspect access doors, hatches, or panels	69
E307 Position fire extinguishers	69
E251 Launch or recover aircraft	68
E294 Perform aircraft fueling or defueling	68
O932 Clear Red-Diagonal conditions	68
F425 Inspect aircraft wheel and tire assemblies	67
E190 Inspect aircraft for corrosion	67
E250 Jack or level aircraft	67
O931 Clear Red-Dash conditions	66
E195 Inspect aircraft windows or windshields	66
E175 Clean aircraft windshields	66
E295 Perform brake rider procedures during aircraft towing	66
E394 Service engines with oil	64
K789 Inspect external aircraft lights	64
E386 Service aircraft hydraulic systems	64
F451 Inspect landing gear struts	64
E176 Clean interior of aircraft	63
E227 Inspect portable fire extinguishers	63
M890 Perform preuse inspections of nonpowered AGE	59
E235 Inspect seats, seatbelts, inertial reels, or shoulder harnesses	59
M891 Perform preuse inspections of powered AGE	58

TABLE B11

## REPRESENTATIVE TASKS PERFORMED BY ALL DAFSC 2A551J PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=2,190)	
E179	Connect or disconnect external electrical aircraft power	80
E297	Perform foreign object damage (FOD) walks	80
E264	Operate aircraft interphones	73
E304	Perform wing or tail walker procedures during aircraft towing	72
E320	Remove or install aircraft hardware, such as screws or fasteners	70
E261	Open or close engine cowlings, panels, or doors	70
E389	Service aircraft tires	70
E257	Lubricate aircraft components	70
E194	Inspect aircraft shock struts	69
E250	Jack or level aircraft	69
E188	Inspect access doors, hatches, or panels	68
E307	Position fire extinguishers	68
E294	Perform aircraft fueling or defueling	67
O932	Clear Red-Diagonal conditions	67
E204	Inspect cargo door or ramp mechanical components	67
E251	Launch or recover aircraft	66
E190	Inspect aircraft for corrosion	66
O931	Clear Red-Dash conditions	65
F425	Inspect aircraft wheel and tire assemblies	65
E195	Inspect aircraft windows or windshields	64
E175	Clean aircraft windshields	64
F451	Inspect landing gear struts	64
E387	Service aircraft LOX systems	63
E295	Perform brake rider procedures during aircraft towing	63
E227	Inspect portable fire extinguishers	62
K789	Inspect external aircraft lights	62
E275	Operationally check cargo doors or ramps	62
E386	Service aircraft hydraulic systems	62
E176	Clean interior of aircraft	61
E394	Service engines with oil	61
E235	Inspect seats, seatbelts, inertial reels, or shoulder harnesses	60
E210	Inspect crew door systems	60
E265	Operate aircraft radios	59
F435	Inspect landing gear door mechanisms	59
E206	Inspect cargo ramp seals	59
K792	Inspect internal aircraft lights, other than emergency lights	57
K790	Inspect external power receptacles	57
E230	Inspect radomes	56
H610	Inspect ailerons	56
M890	Perform preuse inspections of nonpowered AGE	55

TABLE B12

## REPRESENTATIVE TASKS PERFORMED BY ALL DAFSC 2A551K PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=306)
E179	Connect or disconnect external electrical aircraft power	81
E297	Perform foreign object damage (FOD) walks	81
E264	Operate aircraft interphones	77
E261	Open or close engine cowlings, panels, or doors	74
E188	Inspect access doors, hatches, or panels	74
E194	Inspect aircraft shock struts	74
E304	Perform wing or tail walker procedures during aircraft towing	74
E257	Lubricate aircraft components	74
O932	Clear Red-Diagonal conditions	72
O931	Clear Red-Dash conditions	72
E295	Perform brake rider procedures during aircraft towing	72
E320	Remove or install aircraft hardware, such as screws or fasteners	70
E307	Position fire extinguishers	70
E251	Launch or recover aircraft	68
E195	Inspect aircraft windows or windshields	68
E386	Service aircraft hydraulic systems	68
E294	Perform aircraft fueling or defueling	67
F425	Inspect aircraft wheel and tire assemblies	67
E389	Service aircraft tires	67
E394	Service engines with oil	66
M891	Perform preuse inspections of powered AGE	66
E175	Clean aircraft windshields	66
M890	Perform preuse inspections of nonpowered AGE	66
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	65
E190	Inspect aircraft for corrosion	65
K789	Inspect external aircraft lights	65
E230	Inspect radomes	65
E321	Remove or install aircraft protective coverings, such as intake plugs	64
E161	Adjust engine cowlings, panel, or door latches	63
L835	Inspect engine cowlings, panel, or door latches	63
E250	Jack or level aircraft	63
F451	Inspect landing gear struts	63
K805	Remove or install aircraft batteries	63
E176	Clean interior of aircraft	62
E245	Inspect weapons bay doors	62
J759	Inspect aircraft for fuel leaks	62
E227	Inspect portable fire extinguishers	62
I738	Service aircraft accumulators	61
E392	Service engine CSDs or IDGs	60

TABLE B13

## REPRESENTATIVE TASKS PERFORMED BY ALL DAFSC 2A551L PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=1,052)
E179	Connect or disconnect external electrical aircraft power	81
E297	Perform foreign object damage (FOD) walks	81
E304	Perform wing or tail walker procedures during aircraft towing	77
E264	Operate aircraft interphones	76
E261	Open or close engine cowlings, panels, or doors	76
E389	Service aircraft tires	75
E194	Inspect aircraft shock struts	74
E251	Launch or recover aircraft	72
E294	Perform aircraft fueling or defueling	72
E307	Position fire extinguishers	72
E175	Clean aircraft windshields	72
E257	Lubricate aircraft components	72
E295	Perform brake rider procedures during aircraft towing	71
F425	Inspect aircraft wheel and tire assemblies	70
E188	Inspect access doors, hatches, or panels	70
O932	Clear Red-Diagonal conditions	70
E195	Inspect aircraft windows or windshields	70
E190	Inspect aircraft for corrosion	70
E394	Service engines with oil	69
E267	Operate landing gear or wheel well doors	69
E320	Remove or install aircraft hardware, such as screws or fasteners	68
E176	Clean interior of aircraft	68
O931	Clear Red-Dash conditions	67
E386	Service aircraft hydraulic systems	67
K789	Inspect external aircraft lights	67
M890	Perform preuse inspections of nonpowered AGE	65
E178	Clean or wash external surfaces of aircraft, other than optical windows or windshields	65
F451	Inspect landing gear struts	65
E250	Jack or level aircraft	65
M891	Perform preuse inspections of powered AGE	64
E227	Inspect portable fire extinguishers	64
J759	Inspect aircraft for fuel leaks	64
K805	Remove or install aircraft batteries	64
J778	Transfer fuel within aircraft	63
E321	Remove or install aircraft protective coverings, such as intake plugs	62
L835	Inspect engine cowling, panel, or door latches	62
I738	Service aircraft accumulators	61
E396	Service gaseous oxygen systems	60
E303	Perform tow vehicle operator procedures during aircraft towing	60

TABLE B14

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A531X AND 2A551X PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531X (N=796)	DAFSC 2A551X (N=3,548)	DIFFERENCE
E302 Perform tow supervisor procedures during aircraft towing	6	47	-41
B86 Conduct OJT	9	44	-35
A76 Supervise military personnel	3	36	-34
A27 Direct aircraft refueling or defueling operations	20	52	-32
O933 Clear Red-X conditions	5	35	-30
B88 Counsel trainees on training progress	3	31	-28
A14 Counsel subordinates concerning personal matters	6	32	-26
E303 Perform tow vehicle operator procedures during aircraft towing	26	50	-25
A17 Determine or establish work assignments or priorities	7	33	-25
L854 Operationally check engines	5	29	-24
B97 Evaluate progress of trainees	3	27	-24
A10 Conduct supervisory performance feedback sessions	3	25	-22
A26 Direct aircraft jacking operations	6	29	-22
A60 Inspect personnel for compliance with military standards	4	26	-22
B101 Maintain training records or files	16	37	-21
A7 Conduct self-inspections or self-assessments	13	33	-20
B96 Evaluate personnel to determine training needs	2	22	-20
A13 Coordinate maintenance or supply problems with appropriate agencies	11	31	-19
A29 Direct training functions	4	24	-19

TABLE B15

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A331A AND 2A551J PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531A (N=112)	DAFSC 2A551J (N=2,190)	DIFFERENCE
E392 Service engine CSDs or IDGs	57	34	23
E263 Open or close tail cones	49	26	23
E375 Remove or install tail cones	43	22	21
E205 Inspect cargo loading struts or tail stands	52	35	17
E390 Service cargo loading struts	42	27	15
G542 Inspect smoke detection systems	37	21	15
E201 Inspect blow-out doors	53	38	15
L866 Remove or install engine nosedomes	28	13	15
F493 Remove or install landing gear wheel spin brake components, such as snubber brakes	30	16	15
F454 Inspect landing gear wheel spin brake pads, such as snubber	44	29	14
B86 Conduct OJT	6	45	-39
A76 Supervise military personnel	2	37	-36
E302 Perform tow supervisor procedures during aircraft towing	6	43	-36
F457 Lubricate main landing gear jack screws	11	45	-34
F455 Inspect main landing gear jack screws	13	47	-34
O933 Clear Red-X conditions	4	34	-30
E303 Perform tow vehicle operator procedures during aircraft towing	16	46	-30
A14 Counsel subordinates concerning personal matters	4	31	-27
B88 Counsel trainees on training progress	4	32	-27
G549 Operationally check ATMs	3	28	-26
A17 Determine or establish work assignments or priorities	7	33	-26
E403 Troubleshoot cargo door systems	15	42	-26
G576 Service ATMs	2	26	-25
L854 Operationally check engines	3	27	-25
G578 Service GTCs or APUs	13	38	-25
H622 Inspect rudder systems	19	44	-25
E404 Troubleshoot cargo ramp systems	16	41	-25
A26 Direct aircraft jacking operations	6	32	-25
I696 Inspect hydraulic system actuators, power, or boost packs	13	36	-24
A10 Conduct supervisory performance feedback sessions	1	25	-24

TABLE B16

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A531B AND 2A551J PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531B (N=160)	DAFSC 2A551J (N=2,190)	DIFFERENCE
L850 Inspect propellers, brush-blocks, or related components	46	17	29
E271 Operationally check air deflector doors	58	29	29
E260 Moor aircraft	72	44	27
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	62	37	25
L881 Service propeller systems	39	17	22
K813 Service aircraft battery sump jars	55	33	22
E239 Inspect static line retrievers	53	31	22
E211 Inspect crew hatch jettison system components	43	23	19
E170 Bleed brake systems	66	49	18
F457 Lubricate main landing gear jack screws	62	45	17
E290 Operationally check static line retrievers	40	24	16
E262 Open or close radomes	69	54	16
E291 Operationally check troop doors	66	51	15
F455 Inspect main landing gear jack screws	62	47	15
L831 Inspect engine bays	36	22	14
G555 Operationally check GTCs or APUs	51	37	14
E352 Remove or install liferafts	64	50	14
E351 Remove or install liferaft tub assemblies	44	31	13
E176 Clean interior of aircraft	74	61	13
E191 Inspect aircraft fuel system surge suppressors or surge	37	24	13
B86 Conduct OJT	11	45	-34
E302 Perform tow supervisor procedures during aircraft towing	9	43	-33
A76 Supervise military personnel	6	37	-32
A27 Direct aircraft refueling or defueling operations	21	51	-30
E392 Service engine CSDs or IDGs	4	34	-30
E404 Troubleshoot cargo ramp systems	13	41	-28

TABLE B17

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A531C AND 2A551J PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531C (N=151)	DAFSC 2A551J (N=2,190)	DIFFERENCE
F448 Inspect landing gear roll pin lock tabs	65	22	43
F441 Inspect landing gear gudgeon pin lock tabs	62	21	41
I741 Service escape slide bottles	47	12	35
F444 Inspect landing gear kneeling systems	52	18	35
G532 Inspect escape slides	47	13	34
E207 Inspect cargo visor mechanical components	52	23	29
G576 Service ATMs	55	26	29
F456 Inspect nosegear folding bulkhead latching mechanisms or linkages	52	26	26
E400 Take engine oil samples for analysis, such as joint oil analysis program (JOAP)	58	32	26
E392 Service engine CSDs or IDGs	60	34	25
F428 Inspect bogie trim actuators or roll positioners	50	26	24
G525 Inspect descent reels or emergency ground egress systems, such as ropes	50	28	22
I740 Service emergency air bottles, such as RAT air bottles	30	10	21
F432 Inspect landing gear bogie pitch systems or axle beam positioners	50	29	20
E232 Inspect ram air turbine (RAT) doors	38	18	20
G549 Operationally check ATMs	48	28	20
E302 Perform tow supervisor procedures during aircraft towing	6	43	-37
B86 Conduct OJT	8	45	-37
A27 Direct aircraft refueling or defueling operations	16	51	-35
A76 Supervise military personnel	2	37	-35
E260 Moor aircraft	11	44	-34
K813 Service aircraft battery sump jars	2	33	-31
B88 Counsel trainees on training progress	2	32	-30
E303 Perform tow vehicle operator procedures during aircraft towing	17	46	-30
O933 Clear Red-X conditions	4	34	-30
A14 Counsel subordinates concerning personal matters	3	31	-29
A26 Direct aircraft jacking operations	5	32	-27
E185 Drain contaminants from aircraft fuel tank sumps	5	31	-26
B97 Evaluate progress of trainees	3	29	-26

TABLE B18

TASKS WHICH BEST DIFFERENTIATE BETWEEN ALL DAFSC 2A531D AND 2A551J PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531D (N=80)	DAFSC 2A551J (N=2,190)	DIFFERENCE
E357 Remove or install OBIGGS components	44	1	43
E285 Operationally check OBIGGSs	38	2	36
E222 Inspect on-board inert gaseous generation systems (OBIGGSs)	35	3	32
E397 Service OBIGGSs	31	1	30
E408 Troubleshoot OBIGGSs	28	2	26
E171 Bleed hydraulic systems	53	32	20
G558 Operationally check smoke detection systems	43	22	20
E232 Inspect ram air turbine (RAT) doors	38	18	19
G542 Inspect smoke detection systems	40	21	19
H636 Operationally check leading edge slat or leading edge flap systems	40	21	19
E260 Moor aircraft	63	44	18
J763 Inspect fuel vent boxes	34	16	17
E214 Inspect engine pylons or aprons	60	44	16
E187 Drain or replace aircraft engine oil	58	42	16
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E302 Perform tow supervisor procedures during aircraft towing	1	43	-41
E303 Perform tow vehicle operator procedures during aircraft towing	6	46	-40
B86 Conduct OJT	6	45	-39
F455 Inspect main landing gear jack screws	8	47	-39
A76 Supervise military personnel	3	37	-35
A27 Direct aircraft refueling or defueling operations	16	51	-34
G578 Service GTCs or APUs	6	38	-32
F457 Lubricate main landing gear jack screws	13	45	-32
B88 Counsel trainees on training progress	1	32	-31
A26 Direct aircraft jacking operations	1	32	-30
K813 Service aircraft battery sump jars	3	33	-30
E162 Adjust escape hatches for fit and pressurization	10	39	-29
A14 Counsel subordinates concerning personal matters	3	31	-29
E318 Remove or install aircraft door negator springs	14	43	-29
A17 Determine or establish work assignments or priorities	4	33	-29
B97 Evaluate progress of trainees	1	29	-28
I696 Inspect hydraulic system actuators, power, or boost packs	9	36	-28

TABLE B19

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A531E AND 2A551K PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531E (N=41)	DAFSC 2A551K (N=306)	DIFFERENCE
E299 Perform hardness critical procedure (HIC P) ohm checks	63	31	32
E220 Inspect magnetic chip detectors	76	43	32
E180 Connect or disconnect hydraulic test stands to or from aircraft	78	48	30
E396 Service gaseous oxygen systems	66	36	30
E388 Service aircraft nitrogen systems	71	42	29
E189 Inspect accessory drive gearboxes (ADGs)	73	45	28
E296 Perform chip detector ohm tests on aircraft components	68	41	27
E224 Inspect overwing fairings	76	50	26
E359 Remove or install overwing fairing seals	59	35	24
F453 Inspect landing gear up-lock mechanisms	54	33	21
E266 Operate centralized aircraft support systems (CASSs)	61	41	20
E286 Operationally check overwing fairing seals	46	27	19
E267 Operate landing gear or wheel well doors	63	45	19
E302 Perform tow supervisor procedures during aircraft towing	12	52	-40
A27 Direct aircraft refueling or defueling operations	15	53	-38
O933 Clear Red-X conditions	*	35	-35
H625 Inspect spoiler systems	10	41	-31
A14 Counsel subordinates concerning personal matters	*	30	-30
A76 Supervise military personnel	*	30	-30
B86 Conduct OJT	7	38	-30
K786 Inspect aircraft battery vent systems	12	40	-28
I700 Inspect hydraulic system reservoirs	12	39	-27
L859 Remove or install engine cowl, panel, or door latches	24	52	-27
A17 Determine or establish work assignments or priorities	2	30	-27
E186 Drain liquid oxygen (LOX) systems	2	28	-26
G565 Remove or install drag chutes	*	26	-26
B88 Counsel trainees on training progress	*	25	-25
F426 Inspect aircraft wheel bearings	15	40	-25

TABLE B20

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A53IF VS 2A551K PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A53IF (N=36)	DAFSC 2A551K (N=306)	DIFFERENCE
G565 Remove or install drag chutes	81	26	54
L828 Inspect cartridge-type starter breech caps	67	20	47
G580 Service portable oxygen bottles	64	17	47
E186 Drain liquid oxygen (LOX) systems	75	28	47
J780 Verify aircraft fuel tank quantity with dipstick or sight gauge	72	30	42
E191 Inspect aircraft fuel system surge suppressors or surge tanks	64	23	41
E387 Service aircraft LOX systems	72	32	41
L821 Clean cartridge-type starter breech caps	61	23	38
L868 Remove or install engine starter cartridges	58	21	37
E192 Inspect aircraft LOX systems	58	22	37
L866 Remove or install engine nosedomes	56	19	36
E385 Service aircraft fuel system surge suppressors or surge tanks	50	15	35
L822 Clean cartridge-type starters	56	21	35
G526 Inspect drag chute systems	53	19	34
L847 Inspect engine starter cartridges	53	20	33
E252 Leak check aircraft fuel system surge suppressors or surge tanks	56	24	31
G540 Inspect portable oxygen bottles	64	34	30
L827 Inspect auxiliary air doors, such as flipper or sucker-doors	56	26	30
L860 Remove or install engine cowlings, panels, or doors	78	48	30
E400 Take engine oil samples for analysis, such as joint oil analysis program (JOAP)	75	49	26
G512 Adjust aircraft window or windshield rain removal system components	39	14	25
<hr/>			
E302 Perform tow supervisor procedures during aircraft towing	6	52	-46
E220 Inspect magnetic chip detectors	*	43	-43
E266 Operate centralized aircraft support systems (CASSs)	*	41	-41
E269 Operate weapons bay doors	17	58	-41
E296 Perform chip detector ohm tests on aircraft components	*	41	-41
E224 Inspect overwing fairings	11	50	-39
A27 Direct aircraft refueling or defueling operations	14	53	-39
E267 Operate landing gear or wheel well doors	6	45	-39
E388 Service aircraft nitrogen systems	6	42	-36

TABLE B21

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A531G AND 2A551L PERSONNEL  
(PERCENT MEMBER PERFORMING)

TASKS	DAFSC 2A531G (N=104)	DAFSC 2A551L (N=1,052)	DIFFERENCE
E302 Perform tow supervisor procedures during aircraft towing	4	55	-51
O933 Clear Red-X conditions	2	38	-36
B86 Conduct OJT	9	43	-35
A76 Supervise military personnel	2	36	-34
A27 Direct aircraft refueling or defueling operations	22	55	-33
B88 Counsel trainees on training progress	1	31	-30
A14 Counsel subordinates concerning personal matters	4	34	-30
B101 Maintain training records or files	10	34	-24
A17 Determine or establish work assignments or priorities	8	32	-24
I687 Inspect air refueling boom systems	20	43	-23
B97 Evaluate progress of trainees	3	26	-23
P966 Identify chemical warfare agents	16	38	-22
L854 Operationally check engines	13	34	-21
A7 Conduct self-inspections or self-assessments	13	35	-21
E303 Perform tow vehicle operator procedures during aircraft towing	38	60	-21
A10 Conduct supervisory performance feedback sessions	3	24	-21
D140 Evaluate serviceability of equipment, tools, parts, or supplies	22	42	-20
E181 Debrief aircrews	18	39	-20

TABLE B22

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A531H AND 2A551L PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A531H (N=112)	DAFSC 2A551L (N=1,052)	DIFFERENCE
G542 Inspect smoke detection systems	47	8	39
E214 Inspect engine pylons or aprons	67	29	38
J763 Inspect fuel vent boxes	58	25	33
E392 Service engine CSDs or IDGs	79	48	30
E400 Take engine oil samples for analysis, such as joint oil analysis program (JOAP)	71	43	29
J758 Inspect air refueling receiver systems	46	18	28
G558 Operationally check smoke detection systems	35	7	28
J755 Clean air refueling receiver system components	41	14	27
I697 Inspect hydraulic system filters	46	20	26
G579 Service hot, cold, or potable water systems	38	12	26
M898 Service oil servicing carts	46	22	25
E388 Service aircraft nitrogen systems	53	29	24
G537 Inspect hot, cold, or potable water system components	34	11	23
E219 Inspect liferaft release or stowage systems	38	17	22
M894 Service gaseous oxygen servicing carts	27	7	20
E183 Dispose of hazardous materials	69	51	18
E302 Perform tow supervisor procedures during aircraft towing	3	55	-52
E205 Inspect cargo loading struts or tail stands	22	59	-36
F442 Inspect landing gear hydraulic snubbers or shimmy dampeners	13	47	-35
A76 Supervise military personnel	2	36	-34
H596 Adjust cove lip door components	1	34	-33
E348 Remove or install ladders, such as entry, flight station, or troop compartment	16	49	-33
E330 Remove or install cargo loading struts or tail stands	16	49	-33
E162 Adjust escape hatches for fit and pressurization	9	41	-32
F499 Service landing gear hydraulic snubbers or shimmy dampeners	2	34	-32
O933 Clear Red-X conditions	5	38	-32
L854 Operationally check engines	4	34	-31
B86 Conduct OJT	13	43	-31
F461 Operationally check landing gear antiskid systems	6	37	-31

TABLE B23

## REPRESENTATIVE TASKS PERFORMED BY DAFSC 2A571X PERSONNEL

TASKS	PERCENT MEMBERS PERFORMING (N=2,550)
A76 Supervise military personnel	68
E297 Perform foreign object damage (FOD) walks	66
A17 Determine or establish work assignments or priorities	61
A14 Counsel subordinates concerning personal matters	60
O931 Clear Red-Dash conditions	60
O946 Review aircraft flight or maintenance records, such as AF Forms 781 series	59
O932 Clear Red-Diagonal conditions	59
E179 Connect or disconnect external electrical aircraft power	58
O928 Access core automated maintenance system (CAMS) or G0-81 menus and data screens	56
O933 Clear Red-X conditions	56
E304 Perform wing or tail walker procedures during aircraft towing	55
A60 Inspect personnel for compliance with military standards	54
A6 Conduct safety inspections of equipment or facilities	54
E264 Operate aircraft interphones	54
B101 Maintain training records or files	53
E261 Open or close engine cowlings, panels, or doors	53
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	52
B86 Conduct OJT	52
E188 Inspect access doors, hatches, or panels	52
E307 Position fire extinguishers	52
A27 Direct aircraft refueling or defueling operations	51
E302 Perform tow supervisor procedures during aircraft towing	51
E194 Inspect aircraft shock struts	51
F425 Inspect aircraft wheel and tire assemblies	51
A7 Conduct self-inspections or self-assessments	50
A13 Coordinate maintenance or supply problems with appropriate agencies	49
A10 Conduct supervisory performance feedback sessions	49
E251 Launch or recover aircraft	49
E294 Perform aircraft fueling or defueling	49
E320 Remove or install aircraft hardware, such as screws or fasteners	49
E195 Inspect aircraft windows or windshields	49
E190 Inspect aircraft for corrosion	49
E257 Lubricate aircraft components	49

TABLE B24

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A551X AND 2A571  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A551X (N=3,548)	DAFSC 2A571 (N=2,550)	DIFFERENCE
E175 Clean aircraft windshields	66	43	23
E389 Service aircraft tires	71	48	23
E179 Connect or disconnect external electrical aircraft power	80	58	22
E176 Clean interior of aircraft	63	41	22
E257 Lubricate aircraft components	71	49	21
E320 Remove or install aircraft hardware, such as screws or fasteners	70	49	21
E264 Operate aircraft interphones	74	54	20
E394 Service engines with oil	64	45	20
E261 Open or close engine cowlings, panels, or doors	72	53	19
E194 Inspect aircraft shock struts	71	51	19
E251 Launch or recover aircraft	68	49	19
E386 Service aircraft hydraulic systems	64	45	19
E304 Perform wing or tail walker procedures during aircraft towing	73	55	19
E294 Perform aircraft fueling or defueling	68	49	19
E295 Perform brake rider procedures during aircraft towing	66	47	19
A76 Supervise military personnel	36	68	-31
A17 Determine or establish work assignments or priorities	33	61	-29
A60 Inspect personnel for compliance with military standards	26	54	-28
A79 Write recommendations for awards or decorations	17	45	-28
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	24	52	-28
A14 Counsel subordinates concerning personal matters	32	60	-28
A78 Write performance reports or supervisory appraisals	19	45	-26
A10 Conduct supervisory performance feedback sessions	25	49	-25
A5 Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	12	36	-25
A61 Interpret policies, directives, or procedures for subordinates	17	42	-25
A51 Evaluate personnel for compliance with performance standards or technical orders	21	47	-25
A69 Plan or schedule work assignments or priorities	18	42	-24

TABLE B25

TASKS WHICH BEST DIFFERENTIATE BETWEEN 2A551J AND 2A571 PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A551J (N=2,190)	DAFSC 2A571 (N=2,550)	DIFFERENCE
E387 Service aircraft LOX systems	63	32	32
E206 Inspect cargo ramp seals	59	30	29
E204 Inspect cargo door or ramp mechanical components	67	38	28
E275 Operationally check cargo doors or ramps	62	34	28
E291 Operationally check troop doors	51	24	27
E352 Remove or install liferafts	50	24	26
E243 Inspect troop door systems	50	26	24
E260 Moor aircraft	44	20	24
E318 Remove or install aircraft door negator springs	43	19	23
F457 Lubricate main landing gear jack screws	45	22	23
F455 Inspect main landing gear jack screws	47	24	23
E389 Service aircraft tires	70	48	22
E320 Remove or install aircraft hardware, such as screws or fasteners	70	49	22
E179 Connect or disconnect external electrical aircraft power	80	58	21
E219 Inspect liferaft release or stowage systems	47	27	20
E193 Inspect aircraft mooring attachment points	45	25	20
E257 Lubricate aircraft components	70	49	20
E175 Clean aircraft windshields	64	43	20
E250 Jack or level aircraft	69	49	20
A76 Supervise military personnel	37	68	-30
A79 Write recommendations for awards or decorations	16	45	-29
A14 Counsel subordinates concerning personal matters	31	60	-29
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	24	52	-28
A17 Determine or establish work assignments or priorities	33	61	-28
A60 Inspect personnel for compliance with military standards	27	54	-27
A78 Write performance reports or supervisory appraisals	19	45	-26
A51 Evaluate personnel for compliance with performance standards or technical orders	22	47	-25
A21 Develop or establish work schedules	15	39	-24
A61 Interpret policies, directives, or procedures for subordinates	18	42	-24

TABLE B26

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A551K AND 2A571 PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A551K (N=306)	DAFSC 2A571 (N=2,550)	DIFFERENCE
E245 Inspect weapons bay doors	62	4	57
E269 Operate weapons bay doors	58	4	54
E266 Operate centralized aircraft support systems (CASSs)	41	4	36
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	65	31	34
E268 Operate seat adjustment actuators	54	21	34
E224 Inspect overwing fairings	50	18	32
E296 Perform chip detector ohm tests on aircraft components	41	9	32
E392 Service engine CSDs or IDGs	60	30	30
I684 Drain hydraulic systems	50	20	30
K804 Perform CITS ground readiness tests (GRTs)	32	3	29
E220 Inspect magnetic chip detectors	43	14	29
E359 Remove or install overwing fairing seals	35	6	29
E299 Perform hardness critical procedure (HCP) ohm checks	31	2	29
E334 Remove or install CITS magnetic tapes	29	2	27
M898 Service oil servicing carts	40	12	27
E270 Operationally check ADGs	29	3	27
A76 Supervise military personnel	30	68	-38
E204 Inspect cargo door or ramp mechanical components	3	38	-35
E275 Operationally check cargo doors or ramps	1	34	-33
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	20	52	-32
A17 Determine or establish work assignments or priorities	30	61	-32
A15 Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	10	42	-32
A60 Inspect personnel for compliance with military standards	22	54	-32
A2 Assign personnel to work areas or duty positions, other than mobility positions	13	44	-31
A61 Interpret policies, directives, or procedures for subordinates	11	42	-30

TABLE B27

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A551L AND 2A571 PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	DAFSC 2A551L (N=1,052)	DAFSC 2A571 (N=2,550)	DIFFERENCE
E396 Service gaseous oxygen systems	60	21	39
E391 Service crew or passenger comfort facilities, such as latrines or galleys	60	23	37
E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	65	31	34
E205 Inspect cargo loading struts or tail stands	59	28	31
I687 Inspect air refueling boom systems	43	12	30
H639 Operationally check speedbrake systems	44	14	30
E330 Remove or install cargo loading struts or tail stands	49	20	30
E175 Clean aircraft windshields	72	43	29
E267 Operate landing gear or wheel well doors	69	40	28
E201 Inspect blow-out doors	58	31	27
E176 Clean interior of aircraft	68	41	27
E389 Service aircraft tires	75	48	26
J756 Drain aircraft fuel tanks	56	30	26
H596 Adjust cove lip door components	34	8	25
E394 Service engines with oil	69	45	25
H624 Inspect speedbrake systems	39	14	25
A76 Supervise military personnel	36	68	-32
A17 Determine or establish work assignments or priorities	32	61	-29
A60 Inspect personnel for compliance with military standards	27	54	-27
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	24	52	-27
A61 Interpret policies, directives, or procedures for subordinates	16	42	-26
A79 Write recommendations for awards or decorations	19	45	-26
A14 Counsel subordinates concerning personal matters	34	60	-26
A2 Assign personnel to work areas or duty positions, other	19	44	-25
A51 Evaluate personnel for compliance with performance	22	47	-25
A69 Plan or schedule work assignments or priorities	17	42	-25
A5 Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	11	36	-25
A78 Write performance reports or supervisory appraisals	20	45	-25

TABLE B28

## REPRESENTATIVE TASKS PERFORMED BY DAFSC 2A590

TASKS	PERCENT MEMBERS PERFORMING (N=41)
A17 Determine or establish work assignments or priorities	90
A76 Supervise military personnel	88
A14 Counsel subordinates concerning personal matters	88
A13 Coordinate maintenance or supply problems with appropriate agencies	80
A60 Inspect personnel for compliance with military standards	76
A7 Conduct self-inspections or self-assessments	76
A64 Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting	73
O946 Review aircraft flight or maintenance records, such as AF Forms 781 series	71
A42 Evaluate in-process maintenance	71
A21 Develop or establish work schedules	68
O933 Clear Red-X conditions	68
A12 Coordinate cannibalization of parts with appropriate agencies	66
A78 Write performance reports or supervisory appraisals	66
A10 Conduct supervisory performance feedback sessions	66
A5 Conduct general meetings, such as staff meetings, briefings, conferences, or workshops	63
A15 Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace	63
A61 Interpret policies, directives, or procedures for subordinates	63
A52 Evaluate personnel for promotion, demotion, reclassification, or special awards	63
A57 Indorse performance reports or supervisory appraisals	61
A69 Plan or schedule work assignments or priorities	61
A51 Evaluate personnel for compliance with performance standards or technical orders	61
A62 Investigate accidents or incidents	61
O928 Access core automated maintenance system (CAMS) or G0-81 menus and data screens	59
A79 Write recommendations for awards or decorations	59
A2 Assign personnel to work areas or duty positions, other than mobility positions	56
A56 Evaluate workload requirements	56
O941 Initiate or annotate aircraft flight or maintenance records, such as AF Forms 781 series	56
O931 Clear Red-Dash conditions	56
A18 Develop inputs to mobility, contingency, disaster preparedness, or unit emergency or alert plans	54
A11 Coordinate aircraft launch and recovery times with aircrews or appropriate agencies	51
A73 Review flight schedules	51
A74 Schedule personnel for temporary duty (TDY) assignments, leaves, or passes	51

TABLE B29

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 2A571 VS 2A590 PERSONNEL  
(PERCENT MEMBER PERFORMING)

TASKS	DAFSC 2A571 (N=2,550)	DAFSC 2A590 (N=41)	DIFFERENCE
E257 Lubricate aircraft components	49	10	40
E176 Clean interior of aircraft	41	2	39
E179 Connect or disconnect external electrical aircraft power	58	20	39
E386 Service aircraft hydraulic systems	45	7	38
E295 Perform brake rider procedures during aircraft towing	47	10	37
E320 Remove or install aircraft hardware, such as screws or fasteners	49	12	37
E175 Clean aircraft windshields	43	7	36
E261 Open or close engine cowlings, panels, or doors	53	17	36
E161 Adjust engine cowling, panel, or door latches	38	2	35
E314 Remove or install access doors, hatches, or panels	40	5	35
E294 Perform aircraft fueling or defueling	49	15	35
E251 Launch or recover aircraft	49	15	35
K799 Operationally check external aircraft lighting system components	37	5	33
<hr style="border-top: 1px dashed black;"/>			
A62 Investigate accidents or incidents	19	61	-42
A57 Indorse performance reports or supervisory appraisals	25	61	-36
O935 Coordinate material deficiency reports (MDRs), quality deficiency reports (QDRs), or software deficiency reports (SDRs) with appropriate agencies	17	49	-32
A13 Coordinate maintenance or supply problems with appropriate agencies	49	80	-32
A18 Develop inputs to mobility, contingency, disaster preparedness, or unit emergency or alert plans	21	54	-32
A80 Write replies to inspection reports	19	49	-30
A17 Determine or establish work assignments or priorities	61	90	-29
A21 Develop or establish work schedules	39	68	-29
A14 Counsel subordinates concerning personal matters	60	88	-28
A12 Coordinate cannibalization of parts with appropriate agencies	38	66	-28
A73 Review flight schedules	23	51	-28
A74 Schedule personnel for temporary duty (TDY) assignments, leaves, or passes	23	51	-28
A42 Evaluate in-process maintenance	43	71	-28
A46 Evaluate job-related suggestions	26	54	-28

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## **APPENDIX C**

### **STS MATCHES COMPARED TO SURVEY DATA AEROSPACE MAINTENANCE 3-SKILL LEVEL COURSES**

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TABLE C1

TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE OF ACTIVE DUTY  
AFSC 2A531E (B-1) PERSONNEL AND NOT REFERENCED TO THE STS

TASK NBR	TASK NOT REFERENCED	PERCENT MEMBERS PERFORMING			TNG EMP	TSK DIF	ATI
		31E LVL	1ST JOB	1ST ENL			
F451	Inspect landing gear struts	70	63	71	5.94	4.50	18
E293	Perform aircraft fuel spill cleanup procedures	48	44	50	5.82	4.77	15
K792	Inspect internal aircraft lights, other than emergency lights	40	44	42	4.89	3.28	18
E153	Adjust access door or hatch latching mechanisms or linkages	53	31	53	4.88	5.18	12
E229	Inspect pressure seals, such as crew door, ramp, or visor seals	58	44	61	4.36	3.36	12
F450	Inspect landing gear structural components	33	25	32	4.80	4.99	12
F453	Inspect landing gear up-lock mechanisms	53	44	53	3.91	4.79	12
E234	Inspect seat locking mechanisms	30	44	32	4.44	3.27	12
E225	Inspect permanently installed aircraft fire extinguishers	58	56	61	4.35	3.63	#

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C2

EXAMPLES OF STS 2A531E (B-1) COURSE STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP

STS REFERENCE/TASKS	PROF CODE	PERCENT MEMBERS PERFORMING					TNG EMP	TSK DIF	ATI
		31E LVL	1ST JOB	1ST ENL					
A.4.1.3.1. Aircraft communications equipment - Operate radio E265 Operate aircraft radios	-	35	25	37	5.70	3.72	18		
A.4.1.4.3.4. Perform ground handling - Tow vehicle operator - Lubricate aircraft E33 Perform tow vehicle operator procedures during aircraft towing	-	30	25	32	5.30	5.65	15		
A.4.2.3..5. Remove /Install - Radomes E292 Remove or install Radomes	-	33	25	32	4.76	5.19	12		
A.4.2.6. Perform aircraft cold weather procedures E292 Perform aircraft cold weather procedures	-	38	38	39	4.94	4.78	#		
A.4.3.5. Lubricate landing gear components E257 Lubricate landing gear components	-	78	75	82	6.62	4.26	18		
A.4.3.7. Bleed brake systems E170 Bleed brake systems	-	70	63	71	5.70	4.75	18		

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C3

TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE OF ACTIVE DUTY  
AFSC 2A531E (B-2) PERSONNEL AND NOT REFERENCED TO THE STS

TASK NBR	TASK NOT REFERENCED	PERCENT MEMBERS PERFORMING			TNG EMP	TSK DIF	ATI
		31E LVL	1ST JOB	1ST ENL			
O946	Review aircraft flight or maintenance records, such as Forms 781 series	43	63	45	5.98	4.65	12
E293	Perform aircraft fuel spill cleanup procedures	48	44	50	5.82	4.77	15
E262	Open or close radomes	65	63	66	5.77	3.80	18
E235	Inspect seats, seatbelts, inertial reels, or harnesses shoulder	63	75	66	5.56	3.22	18
E322	Remove or install aircraft windows or windshields	45	56	47	5.52	6.38	17
E230	Inspect radomes	60	44	63	5.36	4.00	18
E171	Bleed hydraulic systems	55	50	55	5.22	4.88	12
E161	Adjust engine cowling, panel, or door latches	58	63	61	5.03	5.01	18
F459	Operationally check brake systems	45	44	45	4.99	4.34	15
F443	Inspect landing gear hydraulic system components	30	25	29	4.90	4.70	#
E153	Adjust access door or hatch latching mechanisms or linkages	53	31	53	4.88	5.18	12
E392	Service engine CSDs or IDGs	73	75	76	4.83	3.57	12
F450	Inspect landing gear structural components	33	25	32	4.80	4.99	12
E187	Drain or replace aircraft engine oil	58	63	61	4.65	3.34	12
E279	Operationally check entry door systems	43	44	42	4.59	4.28	12
F452	Inspect landing gear trucks, torque struts, or bogies	35	38	34	4.59	4.72	12

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C4

EXAMPLES OF 2A531E (B-2) COURSE STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP

<u>STS REFERENCE/TASKS</u>	<u>PROF CODE</u>	<u>PERCENT MEMBERS PERFORMING</u>								<u>TSK DIF</u>	<u>ATI</u>
		<u>31E</u>	<u>LVL</u>	<u>IST</u>	<u>JOB</u>	<u>ENL</u>	<u>EMP</u>	<u>TNG</u>	<u>DIF</u>		
A6.1.5.3.4. Tow vehicle operator. E303 Perform tow vehicle operator procedures during aircraft towing	-	30		25		32		5.30	5.65		15
A6.1.5.5.2. Jack and level aircraft-jacking supervisor E250 Jack or level aircraft	-	75		81		76		5.76	6.38		18
A6.2.3.1. Remove/install - Crew entry pressure door E314 Remove or install access doors, hatches, or panel E337 Remove or install crew doors	-	58		56		58		5.16	4.23		18
		13		13		11		4.12	5.55		15
A6.2.6. Secondary structure inspection E292 Perform access doors, hatches, or panels	-	80		81		82		6.28	3.58		18
A6.3.8. Rig/Adjust landing gear system F425 Inspect aircraft wheel and tire assemblies F427 Inspect antiskid system components, such as wheel-speed sensors	-	63		63		66		6.27	4.56		18
		45		31		47		3.92	4.88		12
A6.7.3.2. Hydraulic test stand E180 Connect or disconnect hydraulic test stands to or from aircraft	-	80		88		82		4.83	4.04		11

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C5

TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE OF ACTIVE DUTY  
AFSC 2A531F PERSONNEL AND NOT REFERENCED TO THE STS

TASK NBR	TASK NOT REFERENCED	PERCENT MEMBERS PERFORMING					TNG EMP	TSK DIF	ATI
		31F LVL	1-18 MOS	1ST JOB	1ST ENL				
E179	Connect or disconnect external electrical aircraft power Inspect aircraft wheel and tire assemblies Review aircraft flight or maintenance records, such as AF Forms 781 series	92	100	100	92	6.88	3.15	18	
F425		75	77	79	75	6.27	4.56	18	
O946		47	38	36	47	5.98	4.65	12	
E381	Remove snow or ice from aircraft	53	38	43	53	5.94	4.32	15	
F451	Inspect landing gear struts	56	77	71	56	5.94	4.50	18	
F430	Inspect brake system components	56	69	64	56	5.83	4.82	#	
E293	Perform aircraft fuel spill cleanup procedures	64	54	57	64	5.82	4.77	15	
J757	Dry-drain or pogo aircraft fuel tanks	28	15	21	28	5.44	3.63	12	
E230	Inspect radomes	53	31	36	53	5.36	4.00	18	
E171	Bleed hydraulic systems	56	69	64	56	5.22	4.88	12	
G540	Inspect portable oxygen bottles	64	62	64	64	5.15	3.48	18	
E161	Adjust engine cowling, panel, or door latches	83	77	79	83	5.03	5.01	18	
F459	Operationally check brake systems	44	46	50	44	4.99	4.34	15	
F426	Inspect aircraft wheel bearings	47	38	43	47	4.98	4.70	12	
J772	Prepare aircraft for fuel cell maintenance	47	15	21	47	4.95	4.99	12	
F443	Inspect landing gear hydraulic system components	33	54	50	33	4.90	4.70	#	
K792	Inspect internal aircraft lights, other than lights emergency	78	92	93	78	4.89	3.28	18	
E153	Adjust access door or hatch latching mechanisms or linkages	44	46	43	44	4.88	5.18	12	

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C6

EXAMPLES OF STS 2A531F COURSE STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP

STS REFERENCE/TASKS	PROF CODE	PERCENT MEMBERS PERFORMING					TSK DIF	ATI
		31F LVL	1-18 MOS	1ST JOB	1ST ENL	TNG EMP		
A8.2.3.4. Windows E322 Remove or install aircraft windows or windshields	-	58	31	36	58	5.52	6.38	17
A8.2.3.5. Radomes E365 Remove or install radomes	-	42	8	14	42	4.76	5.19	12
A8.8.1. Fuel aircraft E294 Perform aircraft fueling or defueling	-	75	92	86	75	7.25	5.08	18
A8.8.6. Remove/install external fuel J775 Remove or install external fuel tanks or pylons	-	42	31	29	42	1.83	6.14	#
A8.12.2.1. Air Conditioning units- inspect and operate M891 Perform preuse inspections of powered AGE	-	72	77	79	72	5.76	3.06	18

# No ATI rating available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C7

TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE OF ACTIVE DUTY  
AFSC 2A531B PERSONNEL AND NOT REFERENCED TO THE STS

TASK NBR	TASK NOT REFERENCED	PERCENT MEMBERS PERFORMING					TSK		ATI
		31B LVL	1-18 MOS	1ST JOB	1ST ENL	TNG EMP	DIF		
F425	Inspect aircraft wheel and tire assemblies	64	63	63	64	6.27	4.56	18	
O946	Review aircraft flight or maintenance records, such as AF Forms 781 series	40	34	37	40	5.98	4.65	12	
E381	Remove snow or ice from aircraft	26	26	24	26	5.94	4.32	15	
F451	Inspect landing gear struts	64	68	65	64	5.94	4.50	18	
F430	Inspect brake system components	55	63	58	54	5.83	4.82	#	
E293	Perform aircraft fuel spill cleanup procedures	29	28	27	29	5.82	4.77	15	
E369	Remove or install safety devices, such as seat pins locks or gear	44	38	38	45	5.63	2.91	18	
E235	Inspect seats, seatbelts, inertial reels, or harnesses shoulder	66	60	63	66	5.56	3.22	18	
J757	Dry-drain or pogo aircraft fuel tanks	46	44	45	46	5.44	3.63	12	
E230	Inspect radomes	64	59	60	63	5.36	4.00	18	
E171	Bleed hydraulic systems	39	37	38	38	5.22	4.88	12	
E388	Service aircraft nitrogen systems	15	7	8	15	5.19	4.18	15	
G540	Inspect portable oxygen bottles	46	47	49	45	5.15	3.48	18	

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C8

EXAMPLES OF STS 2A531B COURSE STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP

STS REFERENCE/TASKS	PROF CODE	PERCENT MEMBERS PERFORMING					TNG EMP	TSK DIF	ATI	
		31B LVL	1-18 MOS	1ST JOB	1ST ENL					
A10.1.25. Lube aircraft	-									
E257 Lubricate aircraft components		79	76	79	78	6.62	4.26	18		
F458 Lubricate wheel bearings		41	47	42	41	4.00	3.47	15		
F457 Lubricate main landing gear jack screws		61	63	60	61	3.53	3.42	15		
A10.2.4.1. Remove and Install-cowlings	-									
E261 Open or close engine cowlings, panels, or doors		81	78	81	81	6.35	3.36	18		
L859 Remove or install engine cowling, panels, or door latches		42	43	42	42	5.42	4.86	12		
L860 Remove or install engine cowling, panels, or doors		46	49	48	46	5.35	4.84	12		
A10.2.4.4. Remove and Install-windshields/windows	-									
E322 Remove and Install-window and windshields		54	46	48	54	5.52	6.38	17		
A10.3.2.1. Perform operational check- landing gear	-									
E267 Operate landing gear or wheel well doors		56	50	50	57	4.76	4.34	12		
A10.3.5. Bleed brake systems	-									
E170 Bleed brake systems		71	69	68	71	5.70	4.75	18		

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C9

TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE OF ACTIVE DUTY  
AFSC 2A531G PERSONNEL AND NOT REFERENCED TO THE STS

TASK NBR	TASK NOT REFERENCED	PERCENT MEMBERS PERFORMING					TNG EMP	TSK DIF	ATI
		31G LVL	1-18 MOS	1ST JOB	1ST ENL				
E369	Remove or install safety devices, such as seat pins locks or gear	68	67	64	68	5.63	2.91	18	
E322	Remove or install aircraft windows or windshields	56	47	53	56	5.52	6.38	17	
J757	Dry-drain or pogo aircraft fuel tanks	50	60	55	51	5.44	3.63	12	
E230	Inspect radomes	53	27	49	54	5.36	4.00	18	
E171	Bleed hydraulic systems	58	60	68	59	5.22	4.88	12	
E161	Adjust engine cowling, panel, or door latches	49	20	43	48	5.03	5.01	18	
F426	Inspect aircraft wheel bearings	54	60	64	55	4.98	4.70	12	
J772	Prepare aircraft for fuel cell maintenance	50	40	49	51	4.95	4.99	12	
F443	Inspect landing gear hydraulic system components	47	40	53	46	4.90	4.70		
E153	Adjust access door or hatch latching mechanisms or linkages	55	47	45	55	4.88	5.18	12	
E187	Drain or replace aircraft engine oil	45	40	53	44	4.65	3.34	12	
F452	Inspect landing gear trucks, torque struts, or bogies	44	40	47	43	4.59	4.72	12	
E234	Inspect seat locking mechanisms	52	33	47	52	4.44	3.27	12	
E229	Inspect pressure seals, such as crew door, ramp, or seals visor	48	40	53	49	4.36	3.36	12	
F435	Inspect landing gear door mechanisms	50	40	47	50	4.35	4.78	15	
E162	Adjust escape hatches for fit and pressurization	44	40	30	44	4.30	5.51	7	
F436	Inspect landing gear down-lock mechanisms	60	47	58	60	4.23	4.74	12	

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C10

EXAMPLES OF STS 2A531G COURSE STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP

<u>STS REFERENCE/TASKS</u>	<u>PROF CODE</u>	<u>PERCENT MEMBERS PERFORMING</u>							<u>TSK DIF</u>	<u>ATI</u>
		<u>31G LVL</u>	<u>1-18 MOS</u>	<u>1ST JOB</u>	<u>1ST ENL</u>	<u>TNG EMP</u>				
A12.1.4. Compute center of gravity E412 Weigh aircraft	2b	3	0	4	3	1.93		7.48	#	
A12.4.3.1. Oxygen system- service gaseous oxygen M894 Service gaseous oxygen servicing carts	2b	4	0	2	4	1.70		4.11	#	
A12.8.9.2. IFR receiver system-operate J767 Operationally check air refueling receiver systems	2b	8	7	9	8	1.88		5.04	2	

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C11

TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE OF ACTIVE DUTY  
AFSC 2A531A PERSONNEL AND NOT REFERENCED TO THE STS

TASK NBR	TASK NOT REFERENCED	PERCENT MEMBERS PERFORMING						TNG		TSK		ATI
		31A I.V.L.	1-18 MOS	1ST JOB	1ST ENL	EMP	DIF	DIF	ATI			
K792	Inspect internal aircraft lights, other than lights emergency	48	50	54	48	4.89	3.28	18				
E153	Adjust access door or hatch latching mechanisms or linkages	42	36	30	42	4.88	5.18	12				
F450	Inspect landing gear structural components	43	43	50	43	4.80	4.99	12				
E365	Remove or install radomes	52	61	54	53	4.76	5.19	12				
E187	Drain or replace aircraft engine oil	50	46	52	50	4.65	3.34	12				
F449	Inspect landing gear steering systems	30	39	30	30	4.60	4.87	#				
E279	Operationally check entry door systems	39	29	30	39	4.59	4.28	12				
F452	Inspect landing gear trucks, torque struts, or bogies	43	50	50	43	4.59	4.72	12				
E234	Inspect seat locking mechanisms	50	50	52	51	4.44	3.27	12				
E277	Operationally check emergency hatches or doors	37	39	32	37	4.42	4.16	12				
E229	Inspect pressure seals, such as crew door, ramp, or seals visor	44	46	42	44	4.36	3.36	12				
F435	Inspect landing gear door mechanisms	46	46	42	46	4.35	4.78	15				
F438	Inspect landing gear emergency extension systems	41	43	38	41	4.26	5.11	12				
F436	Inspect landing gear down-lock mechanisms	45	43	40	45	4.23	4.74	12				
E204	Inspect cargo door or ramp mechanical components	53	54	56	54	4.21	4.45	12				
E238	Inspect sliding or swinging window mechanisms or rollers	38	36	38	38	4.14	3.74	12				

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C12

EXAMPLES OF STS 2A531A COURSE STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP

STS REFERENCE/TASKS	PROF CODE	31A LVL	PERCENT MEMBERS PERFORMING				TNG EMP	TSK DIF	ATI
			1-18 MOS	1ST JOB	1ST ENL				
A14.2.2. Research parts O928 Access CAMS OR GO81 menus and data screens	-	38	25	28	38	5.55	4.36	12	
A14.2.3. Maintain aircraft records O928 Access CAMS OR GO81 menus and data screens	-	38	25	28	38	5.55	4.36	12	
A14.4.4.7 Airframe systems- move or install pressure seals E313 Remove or install access doors, hatches, or panels	-	33	29	24	33	4.11	5.04	15	
A14.4.9. Inspect exterior panels E188 Inspect access doors, hatches, or panels E337 Remove or install crew doors	-	70 35	86 32	80 32	71 35	6.28 4.12	3.58 5.55	18 15	
A14.9.4.5. Forward cowl door E161 Adjust engine cowling, panel, or door latches	-	43	54	42	43	5.03	5.01	18	
A14.103. Refuel aircraft E294 Perform aircraft fueling or defueling	-	65	68	72	66	7.25	5.08	18	

# Not matched to Job Inventory Task Statement

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C13

TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE OF ACTIVE DUTY  
AFSC 2A531D PERSONNEL AND NOT REFERENCED TO THE STS

TASK NBR	TASK NOT REFERENCED	PERCENT MEMBERS PERFORMING					TNG EMP	TSK DIF	ATI
		31D LVL	1-18 MOS	1ST JOB	1ST ENL				
E386	Service aircraft hydraulic systems	68	63	67	69	6.65	3.63	18	
E257	Lubricate aircraft components	76	83	76	77	6.62	4.26	18	
E295	Perform brake rider procedures during aircraft towing	53	54	52	53	6.56	3.51	18	
E394	Service engines with oil	65	63	67	66	6.56	2.91	18	
F497	Remove or install wheel and tire assemblies	45	39	39	45	6.47	5.28	18	
E304	Perform wing or tail walker procedures during aircraft towing	75	83	79	77	6.41	2.76	18	
E261	Open or close engine cowlings, panels, or doors	79	80	77	79	6.35	3.36	18	
E188	Inspect access doors, hatches, or panels	73	76	73	73	6.28	3.58	18	
F425	Inspect aircraft wheel and tire assemblies	78	80	79	78	6.27	4.56	18	
E387	Service aircraft LOX systems	69	63	70	70	6.18	4.70	18	
J778	Transfer fuel within aircraft	45	34	39	45	6.17	4.80	18	
K805	Remove or install aircraft batteries	59	51	56	60	6.16	3.97	18	
I742	Service hydraulic system reservoirs	34	29	29	34	6.14	3.49	#	
F471	Remove or install aircraft brake assemblies or brake system components	50	39	48	49	6.13	5.65	18	
O932	Clear Red-Diagonal conditions	71	71	71	71	6.13	4.09	18	
E195	Inspect aircraft windows or windshields	71	80	73	71	6.02	4.06	18	
O931	Clear Red-Dash conditions	73	68	71	73	6.00	4.24	18	
O946	Review aircraft flight or maintenance records, such as AF Forms 781 series	54	56	53	53	5.98	4.65	12	

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C14

EXAMPLES OF STS 2A531D COURSE STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP

STS REFERENCE/TASKS	PROF CODE	PERCENT MEMBERS PERFORMING						TNG EMP	TSK DIF	ATI
		31D LVL	1-18 MOS	1ST JOB	1ST ENL					
A16.1.21.1. Operate radio-UHF	-									
A16.1.21.2. Operate radio-VHF	-									
E265 Operate aircraft radio		51	46	50	52	5.70	3.72	18		
A16.1.22.6.4. Jack aircraft NLG axle jacking	-									
E250 Jack or level aircraft		61	63	59	61	5.76	6.38	18		
A16.7.8.1. Remove or install - Starter	3c									
L870 Remove or install engine starters		13	5	9	12	3.27	5.69	2		
A16.7.8.2. Remove or install - Starter control valve	3c									
L870 Remove or install engine starters control valves		11	10	9	10	2.63	5.19	#		

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C15

TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE OF ACTIVE DUTY  
AFSC 2A531C PERSONNEL AND NOT REFERENCED TO THE STS

TASK NBR	TASK NOT REFERENCED	PERCENT MEMBERS PERFORMING					TNG EMP	TSK DIF	ATI
		31C LVL	1-18 MOS	1ST JOB	1ST ENL				
E295	Perform brake rider procedures during aircraft towing	69	73	71	69	6.56	3.51	18	
F425	Inspect aircraft wheel and tire assemblies	73	77	75	73	6.27	4.56	18	
O946	Review aircraft flight or maintenance records, such as AF Forms 781 series	39	34	40	39	5.98	4.65	12	
F451	Inspect landing gear struts	67	70	67	67	5.94	4.50	18	
F430	Inspect brake system components	59	68	61	60	5.83	4.82	#	
E293	Perform aircraft fuel spill cleanup procedures	24	30	25	24	5.82	4.77	15	
E369	Remove or install safety devices, such as seat pins locks or gear	44	48	45	45	5.63	2.91	18	
E235	Inspect seats, seatbelts, inertial reels, or harnesses shoulder	61	59	59	61	5.56	3.22	18	
E230	Inspect radomes	48	36	41	48	5.36	4.00	18	
E171	Bleed hydraulic systems	41	50	43	42	5.22	4.88	12	
G540	Inspect portable oxygen bottles	55	57	57	55	5.15	3.48	18	
E161	Adjust engine cowling, panel, or door latches	50	32	44	51	5.03	5.01	18	
F426	Inspect aircraft wheel bearings	46	48	48	45	4.98	4.70	12	
F443	Inspect landing gear hydraulic system components	57	50	51	58	4.90	4.70	#	
E153	Adjust access door or hatch latching mechanisms or linkages	40	30	33	40	4.88	5.18	12	
F450	Inspect landing gear structural components	51	48	49	52	4.80	4.99	12	

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C16

EXAMPLES OF STS 2A531C COURSE STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP

STS REFERENCE/TASKS	PROF CODE	PERCENT MEMBERS PERFORMING							TSK DIF	ATI
		31C LVL	1-18 MOS	1ST JOB	1ST ENL	TNG EMP				
A18.1.9.1. Ground handling-Launch and recovery procedures E251 Launch or recovery aircraft	-	65	70	65	65	7.26		4.63	18	
A18.1.9.2.3. Tow aircraft- Wing/tail walker E304 Perform wing or tail walker procedures during aircraft towing	-	84	91	89	84	6.41		2.76	18	
A18.1.9.4. Jack aircraft E250 Jack or level aircraft	-	71	64	68	71	5.76		6.38	18	
A18.1.15. Debrief aircrews E181 Debrief aircrews	-	46	23	35	46	3.73		4.43	#	
A18.3.2.4. Operate- Anti skid F461 Operationally check landing gear antiskid systems	-	41	25	32	42	3.37		5.25	11	
A18.4.4. Service DEWAR with liquid A18.4.5. Drain DEWAR E388 Service aircraft nitrogen systems	- -	50	27	40	50	5.19		4.18	15	
A18.8.4. Defuel aircraft A18.8.3.2. Refuel aircraft- Panel operator E294 Perform aircraft fueling or defueling	- -	76	82	79	76	7.25		5.08	18	

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C17

TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE OF ACTIVE DUTY  
AFSC 2A531A PERSONNEL AND NOT REFERENCED TO THE STS

TASK NBR	TASK NOT REFERENCED	PERCENT MEMBERS PERFORMING					TNG EMP	TSK DIF	ATI
		31A LVL	1-18 MOS	1ST JOB	1ST ENL				
E251	Launch or recover aircraft	68	79	78	69	7.26	4.63	18	
O932	Clear Red-Diagonal conditions	60	57	62	61	6.13	4.09	18	
E190	Inspect aircraft for corrosion	64	79	70	65	6.03	4.69	18	
O931	Clear Red-Dash conditions	55	50	56	56	6.00	4.24	18	
O946	Review aircraft flight or maintenance records, such as AF Form 781 series	38	36	38	37	5.98	4.65	12	
O941	Initiate or annotate aircraft flight or maintenance records such as AF Forms 781 series	30	25	26	30	5.94	4.53	#	
E381	Remove snow or ice from aircraft	25	25	24	25	5.94	4.32	15	
L835	Inspect engine cowling, panel, or door latches	44	46	46	44	5.85	4.09	18	
E293	Perform aircraft fuel spill cleanup procedures	19	25	24	20	5.82	4.77	15	
M891	Perform preuse inspections of powered AGE	49	43	52	49	5.76	3.06	18	
E320	Remove or install aircraft hardware, such as screws or fasteners	72	68	70	73	5.74	2.61	18	
L836	Inspect engine cowlings, panels, or doors	41	43	42	41	5.74	4.03	18	
E307	Position fire extinguishers	67	79	74	68	5.67	1.89	18	
E369	Remove or install safety devices, such as seat pins or gear locks	41	39	32	41	5.63	2.91	18	
L829	Inspect engine air inlet or exhaust areas	33	32	30	33	5.62	4.51	12	
E297	Perform foreign object damage (FOD) walks	83	89	88	830	5.57	1.48	18	
O928	Access core automated maintenance system (CAMS) or G0-81 menus and data screens	38	25	28	38	5.55	4.36	12	

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C18

EXAMPLES OF STS 2A531A COURSE STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP

<u>STS REFERENCE/TASKS</u>	<u>PROF CODE</u>	<u>PERCENT MEMBERS PERFORMING</u>							<u>TSK DIF</u>	<u>ATI</u>
		<u>31A</u>	<u>1-18</u>	<u>1ST</u>	<u>1ST</u>	<u>ENL</u>	<u>EMP</u>	<u>TNG</u>		
A20.2.1. Airframe components and structure	E257 Lubricate aircraft components	74	89	80	75	6.62	6.62	4.26	18	
	E188 Inspect access doors, hatches, or panels	70	86	80	71	6.28	6.28	3.58	18	
	E178 Clean or wash external surfaces of aircraft, other than optical windows or windshields	20	21	24	21	5.04	5.04	2.88	12	
	E176 Clean interior of aircraft	56	71	64	57	5.01	5.01	1.68	18	
A20.2.4.1. Remove and install - Cowlings	L860 Remove or install engine cowlings, panels, or doors	33	32	30	33	5.35	5.35	4.84	12	
A20.2.4.3. Remove and install - Nonexplosive seats	E235 Inspect seats, seatbelts, inertial reels, or shoulder harnesses	54	57	58	55	5.56	5.56	3.22	18	
	E234 Inspect seat locking mechanisms	50	50	52	51	4.44	4.44	3.27	12	
A20.2.9. Inspect crew/passenger comfort facilities	E235 Inspect crew/passenger comfort facilities, such as latrines or galleys	52	57	54	53	4.80	4.80	3.03	18	
A20.4.3.8. Inspect- Oxygen system	G540 Inspect portable oxygen bottles	39	32	36	39	5.15	5.15	3.48	18	

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C19

TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE OF ACTIVE DUTY  
AFSC 2A531H PERSONNEL AND NOT REFERENCED TO THE STS

TASK NBR	TASK NOT REFERENCED	PERCENT MEMBERS PERFORMING					TNG EMP	TSK DIF	ATI
		31H LVL	1-18 MOS	1ST JOB	1ST ENL				
E295	Perform brake rider procedures during aircraft towing	75	76	78	75	6.56	3.51	18	
O946	Review aircraft flight or maintenance records, such as AF Forms 781 series	38	38	39	38	5.98	4.65	12	
E381	Remove snow or ice from aircraft	57	45	55	57	5.94	4.32	15	
E293	Perform aircraft fuel spill cleanup procedures	48	38	48	48	5.82	4.77	15	
E369	Remove or install safety devices, such as seat pins locks or gear	50	52	54	50	5.63	2.91	18	
E235	Inspect seats, seatbelts, inertial reels, or harnesses shoulder	61	59	58	61	5.56	3.22	18	
E322	Remove or install aircraft windows or windshields	49	41	46	49	5.52	6.38	17	
E230	Inspect radomes	69	69	69	69	5.36	4.00	18	
E388	Service aircraft nitrogen systems	53	59	60	53	5.19	4.18	15	
G540	Inspect portable oxygen bottles	60	66	61	60	5.15	3.348	18	
F426	Inspect aircraft wheel bearings	48	52	49	48	4.98	4.70	12	
E392	Service engine CSDs or IDGs	79	90	87	79	4.83	3.57	12	
E396	Service gaseous oxygen systems	74	83	81	74	4.81	4.09	7	
E279	Operationally check entry door systems	49	48	45	49	4.59	4.28	12	
P962	Don or doff chemical warfare personal protective clothing	36	28	33	36	4.53	4.56	#	
E234	Inspect seat locking mechanisms	42	41	40	42	4.44	3.27	12	

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C20

EXAMPLES OF STS 2A53IH COURSE STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP

STS REFERENCE/TASKS	PROF CODE	PERCENT MEMBERS PERFORMING						TSK DIF	ATI
		31H LVL	1-18 MOS	1ST JOB	1ST ENL	TNG EMP			
A24.1.4.3.4. Tow vehicle operator E303 Perform tow vehicle operator procedures during aircraft towing	-	38	31	33	38	5.30	5.65	15	
A24.2.3.5. Remove and install Radome E262 Open or close radomes E365 Remove or install radomes	-	47 22	34 24	40 16	47 22	5.77 4.76	3.80 5.19	18 12	
A24.3.2.1. Landing gear E267 Operate landing gear or wheel well doors	-	75	76	76	75	4.76	4.34	12	
A24.6.2.1. Hydraulic systems- Service E386 Service aircraft hydraulic systems	-	68	72	73	68	6.65	3.63	18	
A24.8.5 Prepare aircraft for fuel cell maintenance J756 Drain aircraft fuel tanks J757 Dry-drain or poqo aircraft fuel tanks J772 Prepare aircraft for fuel cell maintenance	-	63 50 54	66 52 48	64 54 55	63 50 54	5.48 5.44 4.95	4.29 3.63 4.99	12 12 12	

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C21

TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE OF ACTIVE DUTY  
AFSC 2A531B (MRT) PERSONNEL AND NOT REFERENCED TO THE STS

TASK NBR	TASK NOT REFERENCED	PERCENT MEMBERS PERFORMING					TNG EMP	TSK DIF	ATI
		31B LVL	1-18 MOS	1ST JOB	1ST ENL				
E257	Lubricate aircraft components	79	75	71	67	6.62	4.26	18	
F497	Remove or install wheel and tire assemblies	51	50	52	46	6.47	5.28	18	
E387	Service aircraft LOX systems	69	58	57	59	6.18	4.70	18	
K805	Remove or install aircraft batteries	61	50	52	52	6.16	3.97	18	
I742	Service hydraulic system reservoirs	46	33	38	38	6.14	3.49	18	
F471	Remove or install aircraft brake assemblies or components brake system	58	50	48	48	6.13	5.65	18	
E194	Inspect aircraft shock struts	77	58	62	64	5.97	3.98	18	
M891	Perform preuse inspections of powered AGE	51	58	52	46	5.76	3.06	18	
E250	Jack or level aircraft	76	67	71	66	5.76	6.38	18	
E170	Bleed brake systems	71	58	57	54	5.70	4.75	18	
M890	Perform preuse inspections of nonpowered AGE	52	67	57	46	5.70	2.60	18	
E369	Remove or install safety devices, such as seat pins locks or gear	44	58	48	44	5.63	2.91	18	
O928	Access core automated maintenance system (CAMS) menus and data screens or G0-81	46	25	29	43	5.55	4.36	12	
E183	Dispose of hazardous materials	51	67	48	42	5.48	5.03	18	
J757	Dry-drain or pogo aircraft fuel tanks	46	33	29	35	5.44	3.63	12	
K809	Remove or install external aircraft lighting components, other than strobe lights system	46	33	38	42	5.43	4.08	12	
K796	Operationally check aircraft batteries	56	33	43	48	5.08	4.00	18	
F459	Operationally check brake systems	43	42	43	42	4.99	4.34	15	

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C22

EXAMPLES OF STS 2A531 B (MRT) COURSE STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP

STS REFERENCE/TASKS	PROF CODE	PERCENT MEMBERS PERFORMING					TNG EMP	TSK DIF	ATI
		31B LVL	1-18 MOS	1ST JOB	1ST ENL				
A10.1.1.1. Safety precautions pertaining to high intensity sound	-								
E251 Launch or recover aircraft		70	67	67	59	7.26		4.63	18
G555 Operationally check GTCs or APUs		53	25	24	33	3.66		4.93	#
A10.6.3.2. Service accumulators	-								
E251 Service aircraft accumulators		45	33	43	42	6.09		4.03	18
A10.6.4. Inspect hydraulic system	-								
I695 Inspect hydraulic system accumulators		51	33	33	34	5.03		4.31	15
I700 Inspect hydraulic system reservoirs		47	33	38	34	4.71		4.23	#
A10.7.3.3. Service GTC	-								
G578 Service GTCs or APUs		46	42	33	32	3.90		3.68	#

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C23

TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE OF ACTIVE DUTY  
AFSC 2A531B (MRT) PERSONNEL AND NOT REFERENCED TO THE STS

TASK NBR	TASK NOT REFERENCED	PERCENT MEMBERS PERFORMING					TNG EMP	TSK DIF	ATI
		11B	1-18	1ST	1ST	ENL			
		LVL	MOS	JOB	JOB				
E257	Lubricate aircraft components	74	89	80	75	6.62	4.26	18	
F497	Remove or install wheel and tire assemblies	44	46	42	44	6.47	5.28	18	
E188	Inspect access doors, hatches, or panels	70	86	80	71	6.28	3.58	18	
F425	Inspect aircraft wheel and tire assemblies	63	68	72	64	6.27	4.56	18	
K805	Remove or install aircraft batteries	55	57	58	56	6.16	3.97	18	
F471	Remove or install aircraft brake assemblies or brake system components	46	46	48	46	6.13	5.65	18	
O932	Clear Red-Diagonal conditions	60	57	62	61	6.13	4.09	18	
J759	Inspect aircraft for fuel leaks	43	46	54	43	6.10	4.18	18	
I738	Service aircraft accumulators	32	32	30	32	6.09	4.03	18	
E190	Inspect aircraft for corrosion	64	79	70	65	6.03	4.69	18	
E195	Inspect aircraft windows or windshields	62	79	76	63	6.02	4.06	18	
O931	Clear Red-Dash conditions	55	50	56	56	6.00	4.24	18	
O946	Review aircraft flight or maintenance records, such as AF Forms 781 series	38	36	38	37	5.98	4.65	12	
E194	Inspect aircraft shock struts	59	79	68	60	5.97	3.98	18	
F451	Inspect landing gear struts	53	46	56	54	5.94	4.50	18	

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)

TABLE C24

EXAMPLES OF STS 2A531A (MRT) COURSE STS ELEMENTS WHERE PROFICIENCY CODES DO NOT MATCH PMP

STS REFERENCE/TASKS	PROF CODE	PERCENT MEMBERS PERFORMING							TSK DIF	ATI
		31A LVL	1-18 MOS	1ST JOB	1ST ENL	TNG EMP				
A14.4.3.3. Open and close crew entry door E261 Open or close engine cowlings, panels, or doors	-	73	93	86	74	6.35	3.36	18		
A14.5.2.2. Operate brakes E295 Perform brake rider procedures during aircraft towing	-	69	75	76	70	6.56	3.51	18		
A14.5.3.3. Inflate tires E389 Service aircraft tires	-	70	79	82	71	6.93	3.42	18		
A14.8.3.1. Service hydraulic system E386 Service aircraft hydraulic systems I742 Inspect hydraulic system reservoirs	-	61 36	75 50	72 38	62 36	6.65 6.14	3.63 3.49	18 #		
A14.9.7. Take JOAP sample E400 Take engine oil samples for analysis, such as joint oil analysis program	-	43	39	44	43	5.49	3.58	#		
A14.11.5. Apply/disconnect external electrical power E179 Connect or disconnect external electrical aircraft power M891 Perform preuse inspections of powered AGE K790 Inspect external power receptacles	-	82 49 51	89 43 57	82 52 62	81 49 52	6.88 5.76 4.88	3.15 3.06 3.35	18 18 18		

# No ATI available

NOTE: Mean TE Rating is 2.52, and Standard Deviation is 1.42 (High TE = 3.94)  
Average TD = 5.00, Standard Deviation = 1.00 (High TD = 6.00)